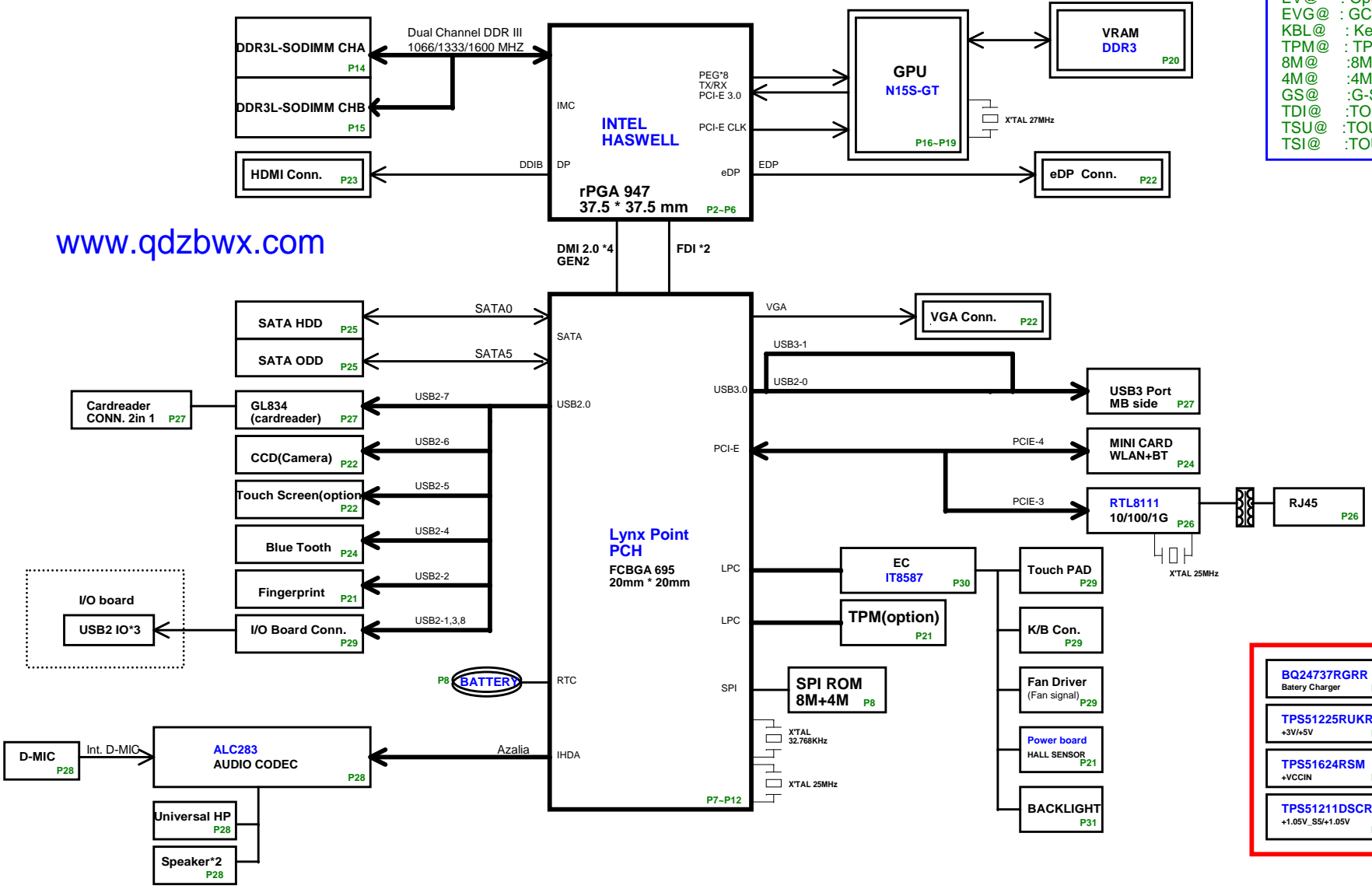


Z8B_GDDR3 HSW SV SYSTEM BLOCK DIAGRAM

BOM

- IV@ : iGPU
- EV@ : Optimus
- EVG@ : GC6
- KBL@ : Keyboard backlight
- TPM@ : TPM
- 8M@ : 8M FLASH ROM
- 4M@ : 4M FLASH ROM
- GS@ : G-SENSOR
- TDI@ : TOUCH PAD I2C
- TSU@ : TOUCH SCREEN USB
- TSI@ : TOUCH SCREEN I2C

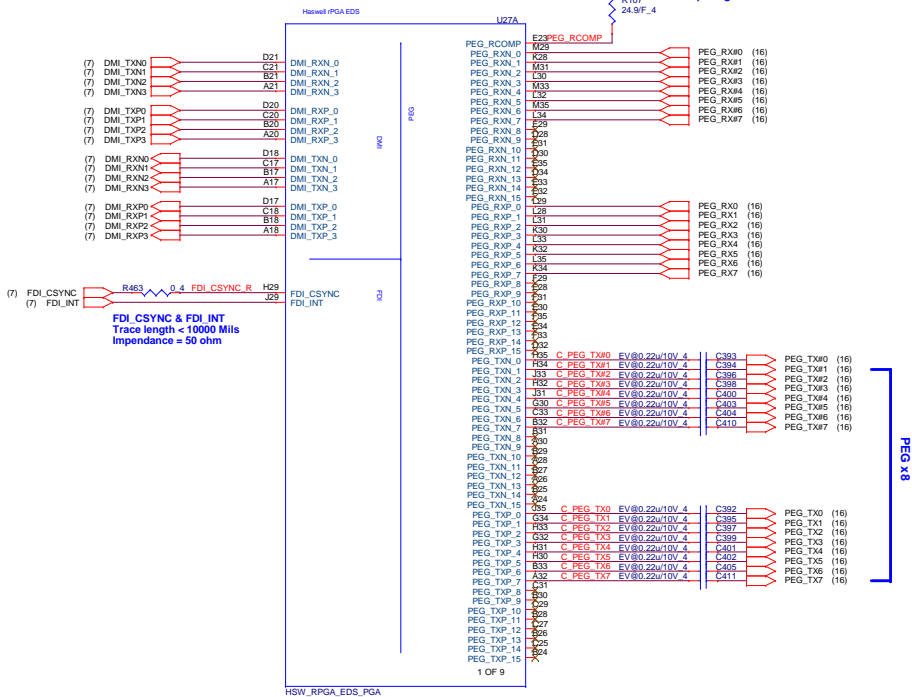
www.qdzbwx.com



BQ24737RGRR Battery Charger P31	TPS51216RUKR +1.35V_SUS P34
TPS51225RUKR +3V/+5V P32	TPS54318RTER +1.5V P36
TPS51624RSM +VCCIN P35	UP1658RQKF +VGPU_CORE P37
TPS51211DSCR +1.05V_SS/+1.05V P33	PS51211DSCR +1.5V_GFX/1.05V_GFX/3V_GFX P38

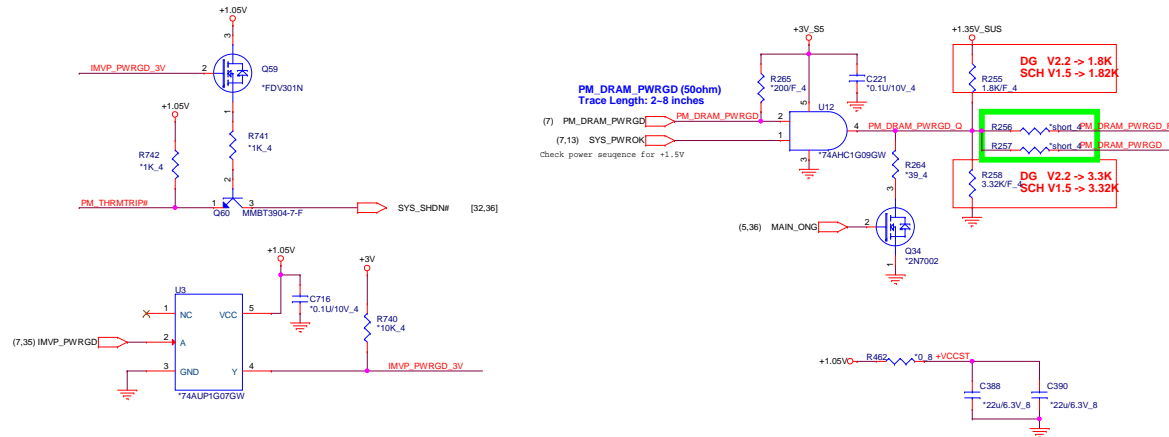
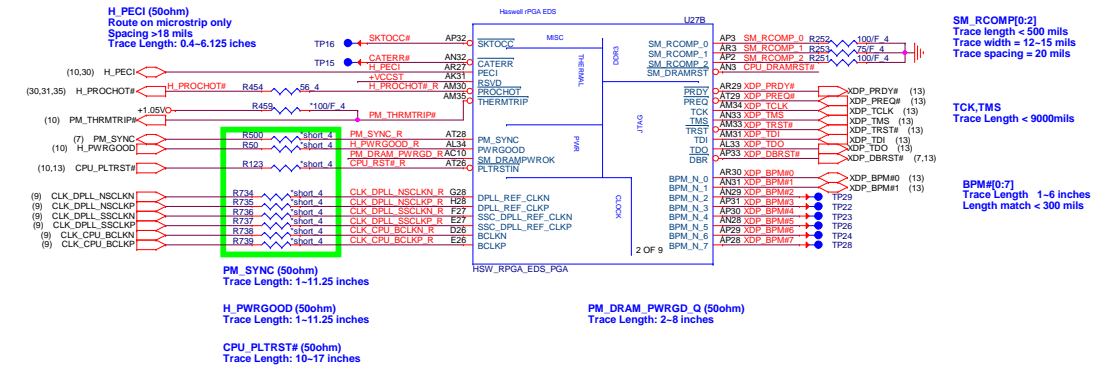
www.vinafix.com

Haswell Processor (DMI,PEG,FDI)

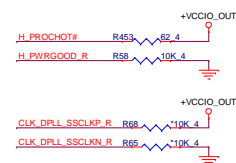


www.qdzbwx.com

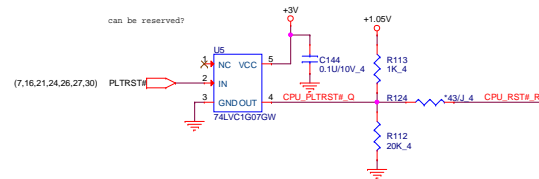
Haswell Processor (CLK,MISC,JTAG)



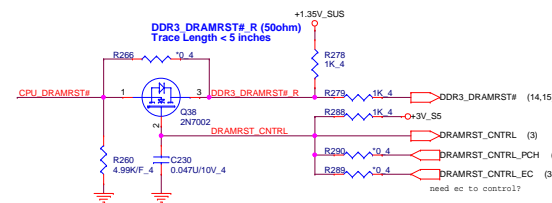
PU/PD of CPU



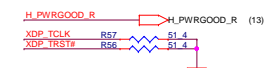
Reserved For buffer reset of PLTRSRIN#



SM_DRAMRST# Topology



XDP PU/PD

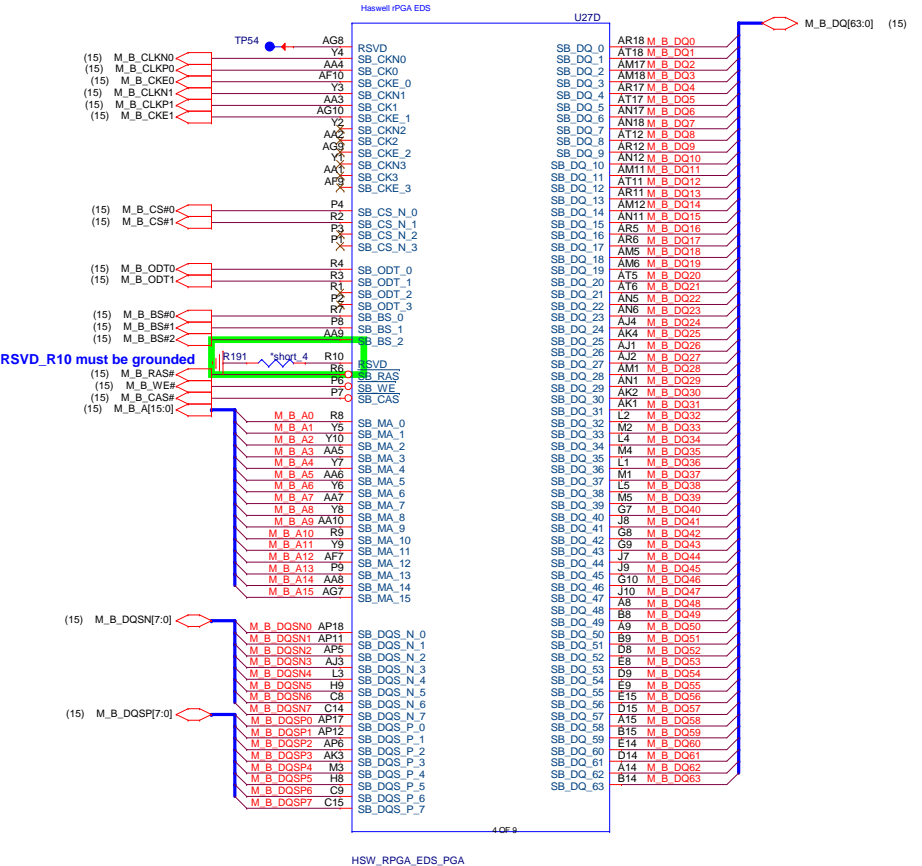
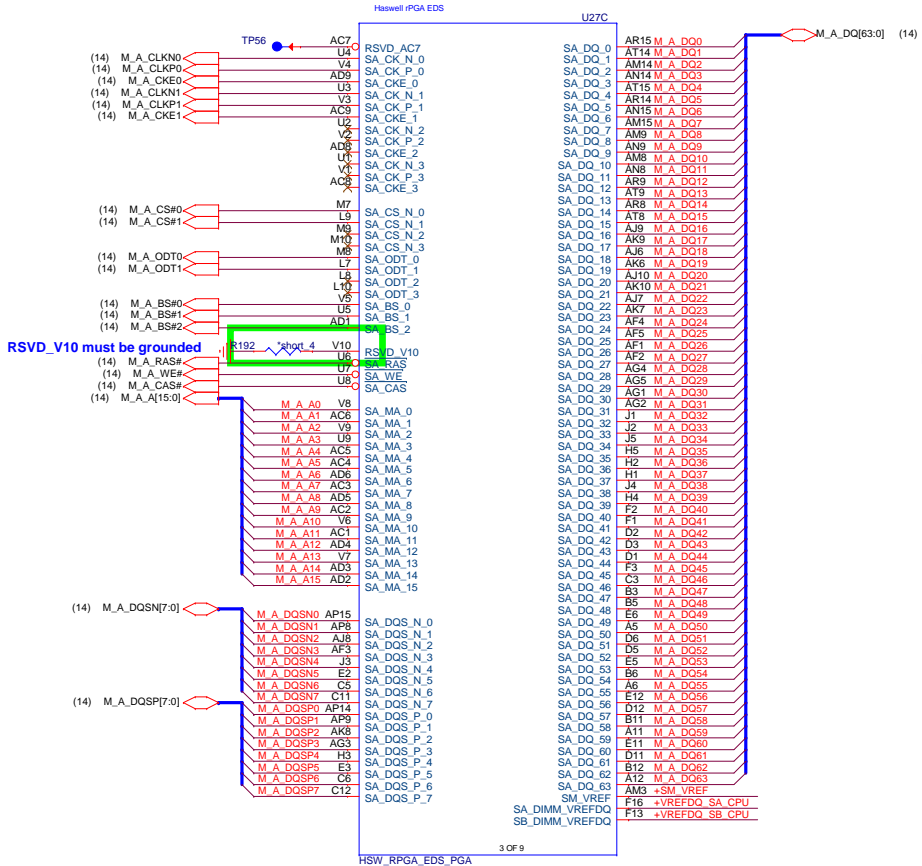


Quanta Computer Inc.
PROJECT :Z8B

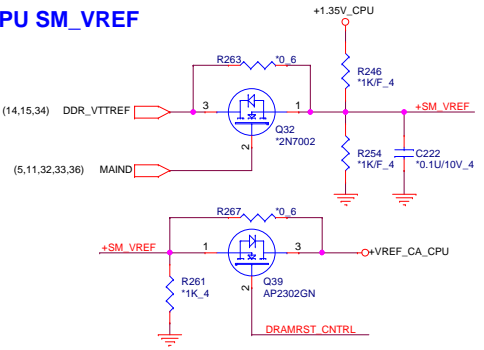
Size	Document Number Haswell 1/5 (PEG/DWI/FDI)	Rev 1A
Date:	Monday, July 14, 2014	Sheet 2 of 44

Haswell Processor (DDR3)

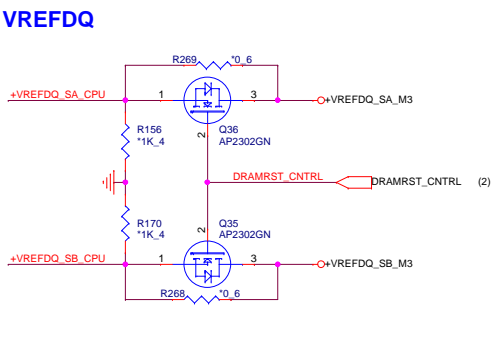
Haswell Processor (DDR3)



CPU SM_VREF



CPU VREFDQ



Quanta Computer Inc.

PROJECT : Z8B

Size	Document Number	Rev
	Haswell 2/5 (DDR3 I/F)	1A
Date:	Friday, June 13, 2014	Sheet 3 of 44

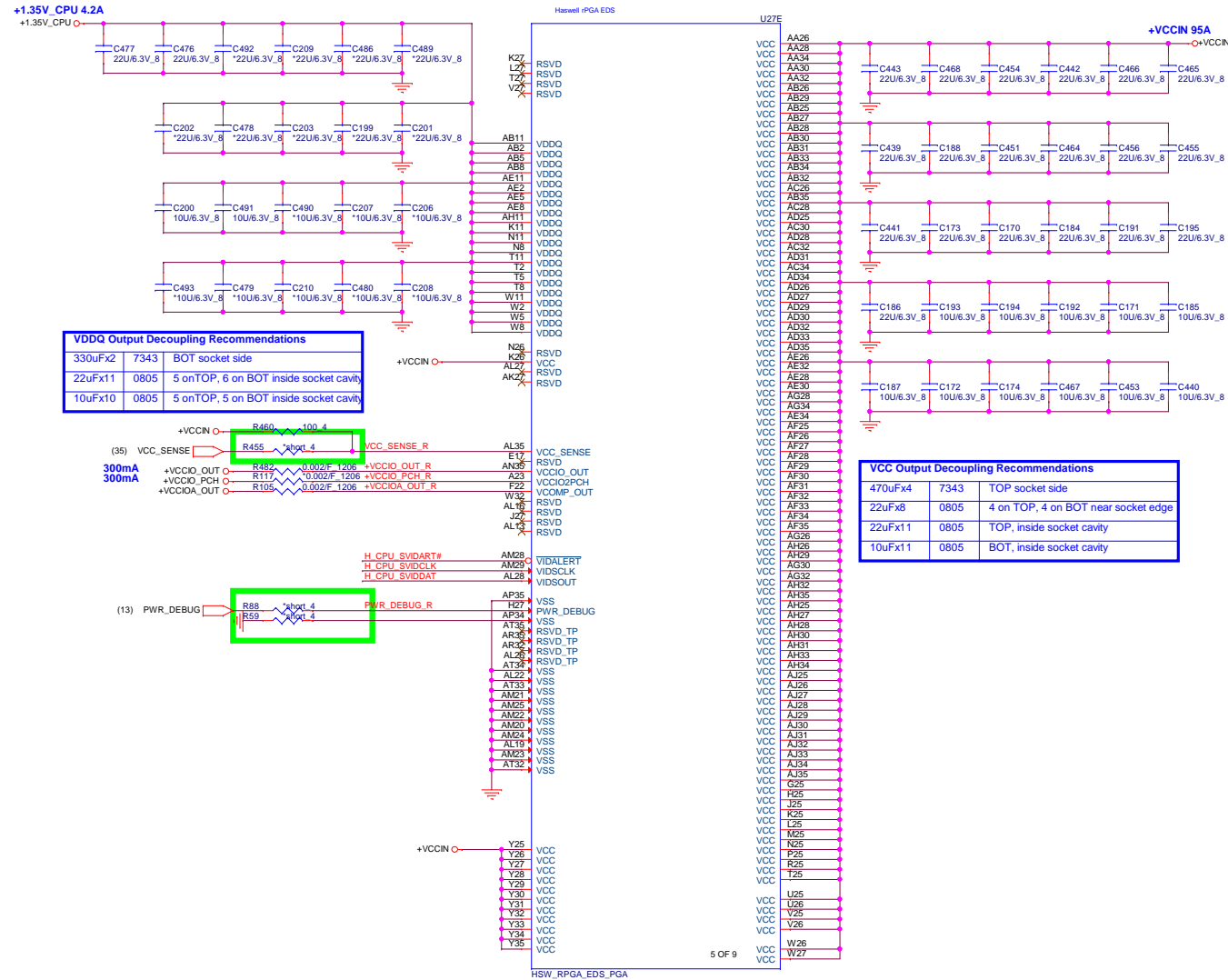
U27H



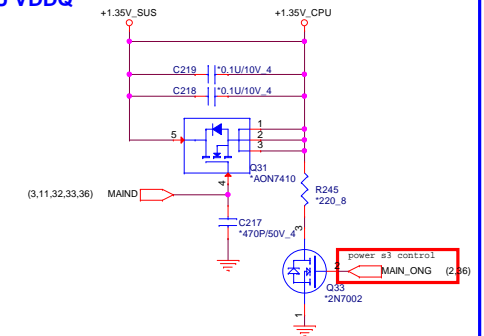
eDP_RCOMP
Trace length < 100 mils
Trace width = 20 mils
Trace spacing = 25 mils



Haswell Processor (POWER)

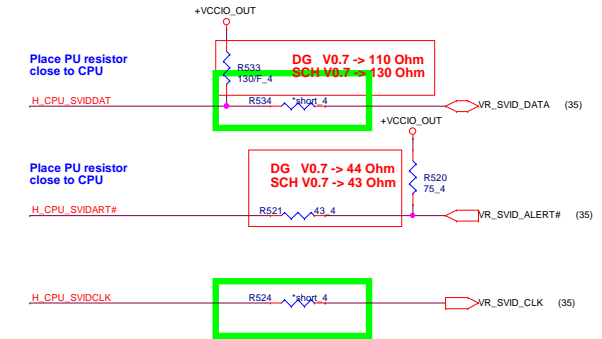


CPU VDDQ



SVID

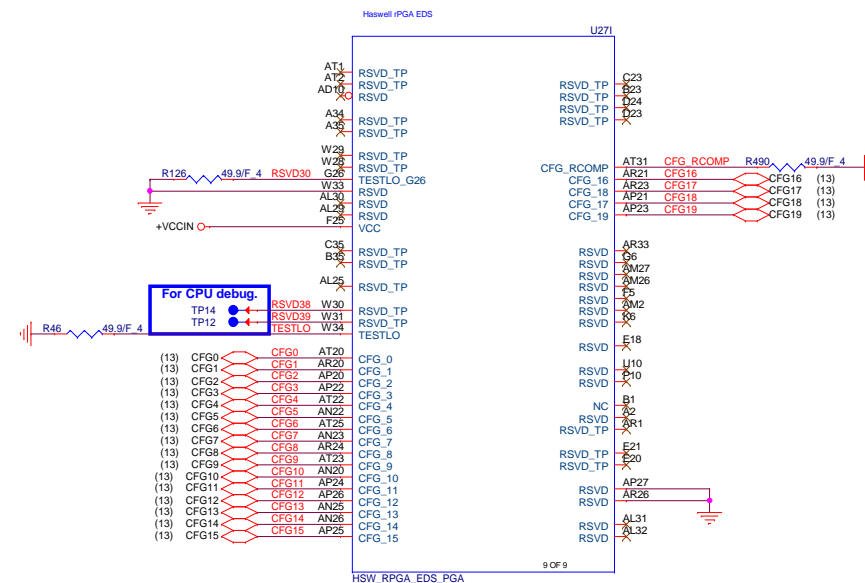
Layout note: need routing together and ALERT need between CLK and DATA.



Haswell Processor (GND)

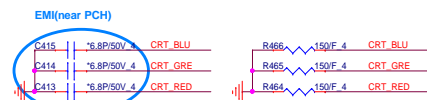
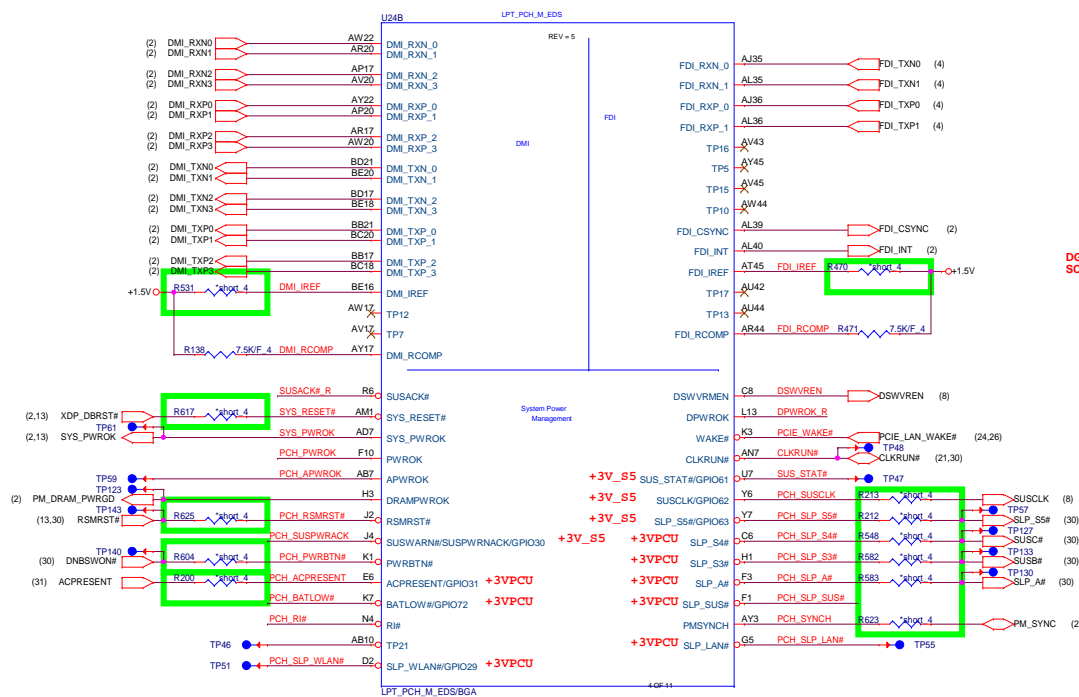


Haswell Processor (CFG,RSVD)

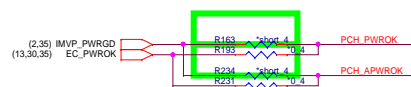
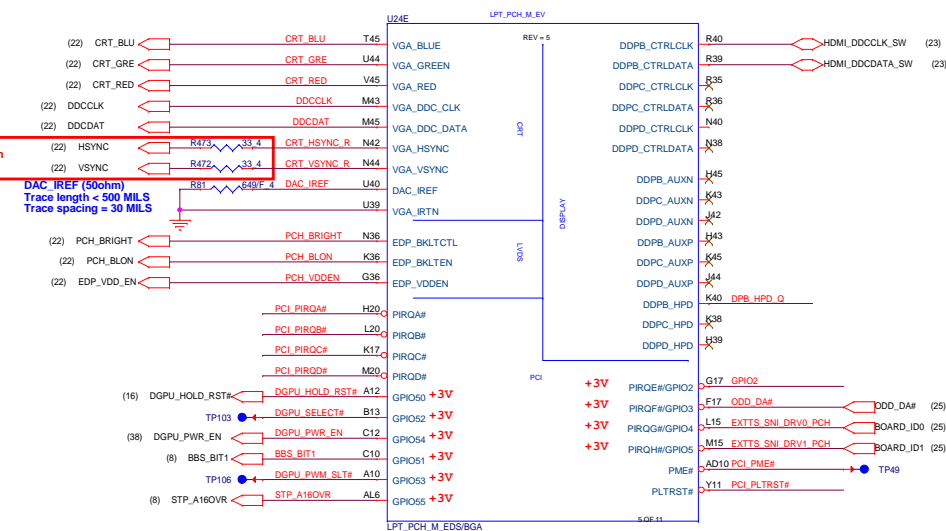


Configuration Signals:		The CFG signals have a default value of '1' if not terminated on the board.	
CFG[2]	PCI Express Static Lane Reversal	x1 = Normal operation x0 = Lane numbers reversed	
CFG[4]	eDP enable	x1 = Disabled x0 = Enabled	
CFG[6:5]	PCI Express Bifurcation	x00 = 1 x8 & 2 x4 PCI Express x01 = reserved x10 = 2 x8 PCI Express x11 = 1 x16 PCI Express	
CFG[7]	PEG defer training	x1 = PEG train follow RESETB de-asserted x0 = PEG wait for BIOS fro training	

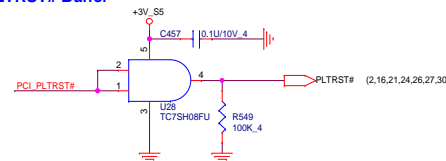
Lynx Point (DMI,FDI,PM)



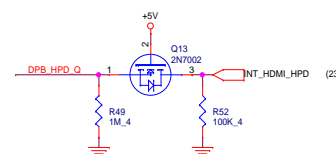
Lynx Point (CRT,PCI,DDI CNTL)



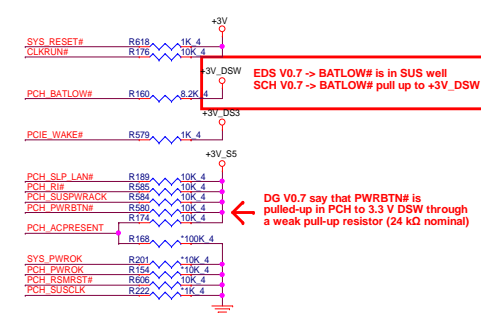
PLTRST# Buffer



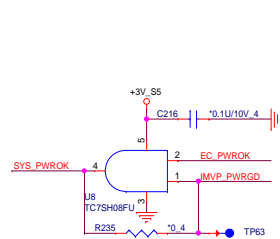
HDMI HPD



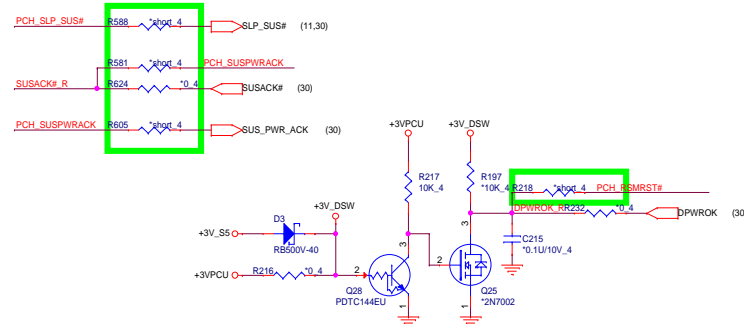
PCH PM PU/PD



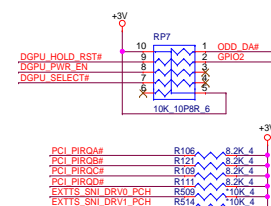
SYSPWOK



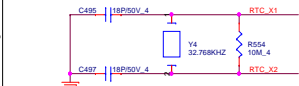
DSW Circuit



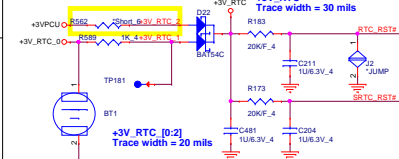
PCI PU



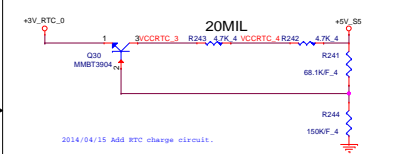
RTC Clock 32.768KHz (RTC)



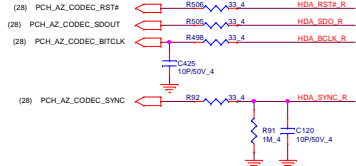
RTC Circuitry (RTC)



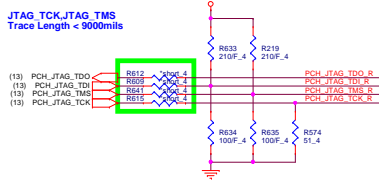
RTC charge circuit



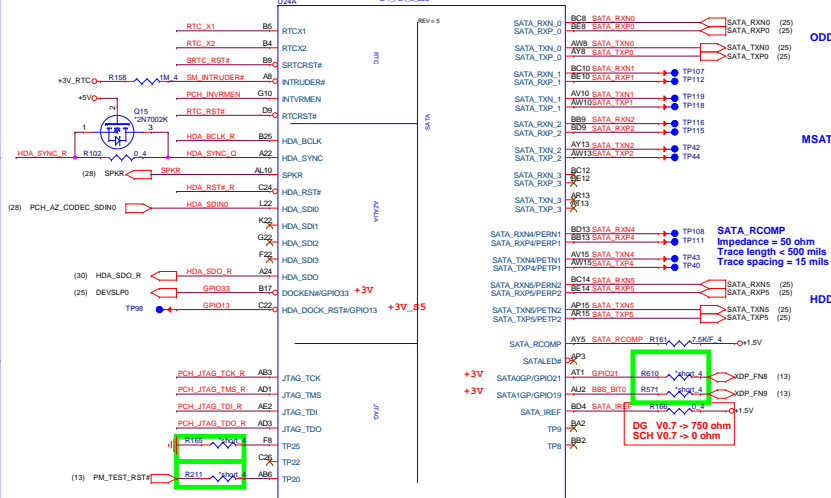
HDA



PCH JTAG



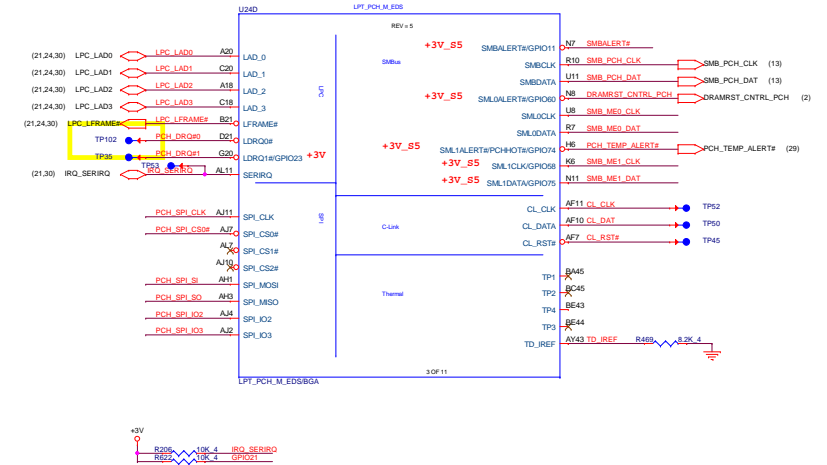
Lynx Point (RTC, I2C, SATA, JTAG)



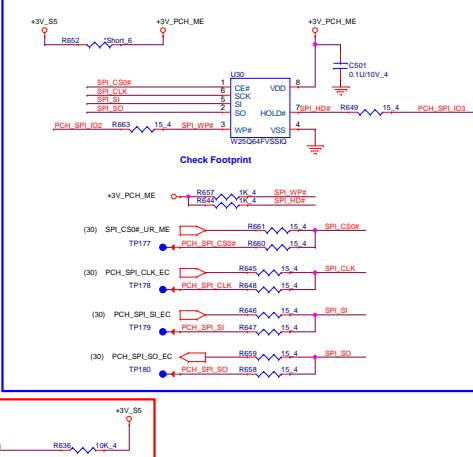
PCH STRAPPING

Pin Name	Usage	Sampled	Configuration	Circuitry
SPKR	No Reboot	PWROK	0 = Disable (Int PD) 1 = Enable	SPKR R209 10K 4
GPIO62 / SUSCLK	PLL On-Die Voltage Regulator Enable	RSMRST#	0 = Disable 1 = Enable (Int PU)	(7) SUSCLK R221 10K 4
GPIO55	Top-Block Swap Override	PWROK	0 = Top-Block Swap mode 1 = Default (Int PU)	(7) STP_A180VR R167 10K 4
INTVRMEN	Integrated VRM Enable	Always	0 = Disable 1 = Enable	PCH_INVRMEN R171 390K 4
GPIO51	Boot BIOS Strap bit 1	PWROK	Bit1 Bit0 1 0 Reserved 0 0 LFC	(7) BBS_BIT0 R146 10K 4
SATA1GP/GPIO19	Boot BIOS Strap bit 0	PWROK	0 = Security Effect (Int PD) 1 = Can be Override	(7) BBS_BIT0 R146 10K 4
HDA_SDO	Flash Descriptor Security Override / Intel ME Debug Mode	PWROK	0 = Security Effect (Int PD) 1 = Can be Override	HDA_SDO_R R501 10K 4
GPIO36	RSVD	PWROK	Internal PD	(10) GPIO36 R696 10K 4
SATA3GP/GPIO37	TLS Confidentiality	PWROK	0 = TLS no confidentiality (Int PD) 1 = TLS with confidentiality	(10) FDL0VR/LT0 R620 10K 4
GPIO8	RSVD	RSMRST#	Internal PU	(10,22) GPIO8 R601 10K 4
GPIO28	PLL on die VR enable	RSMRST#	0 = Disable 1 = Enable (Int PU)	(10) PLL_OVR_EN R155 10K 4
DSWREN	On Die DSW VR Enable	Always	0 = Enable 1 = Disable Must be PU to VCCRTC	(7) DSWREN R164 330K 4

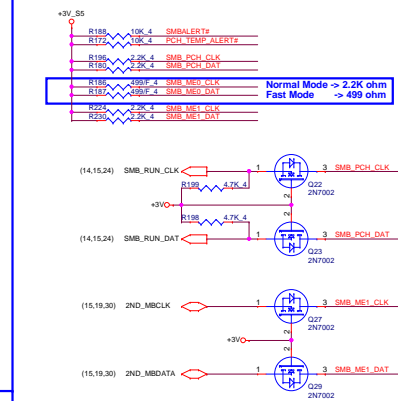
Lynx Point (LPC, SPI, SMBUS, C-LINK, THERMAL)



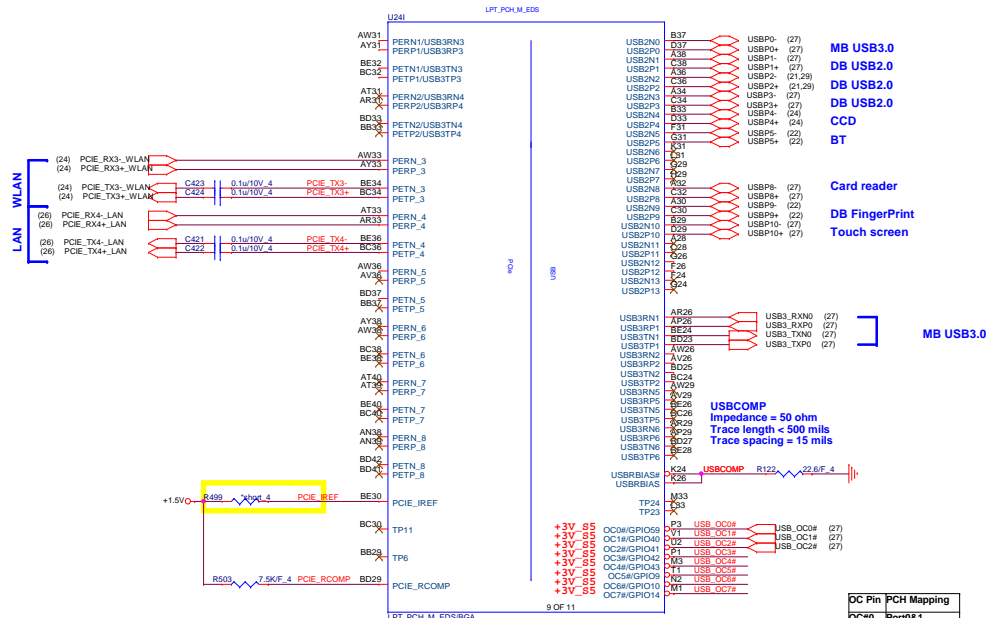
PCH Quad SPI ROM



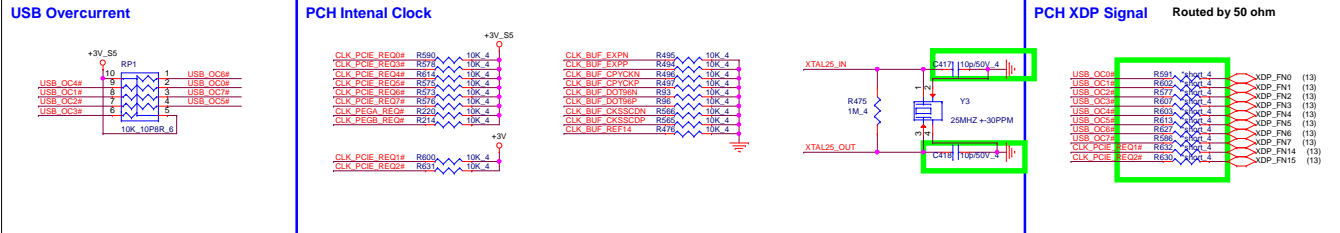
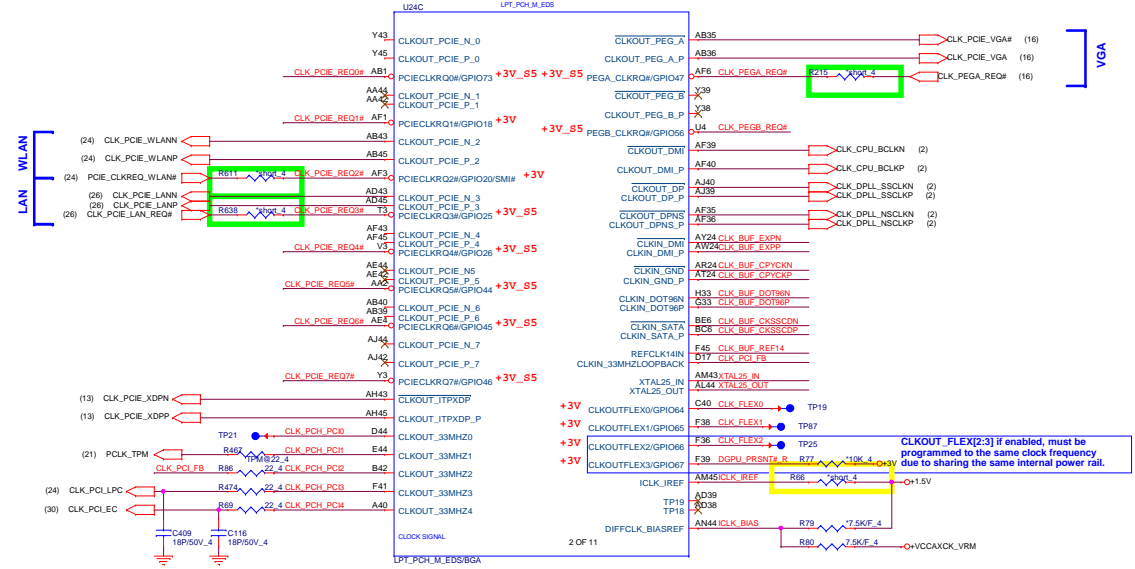
SMBus



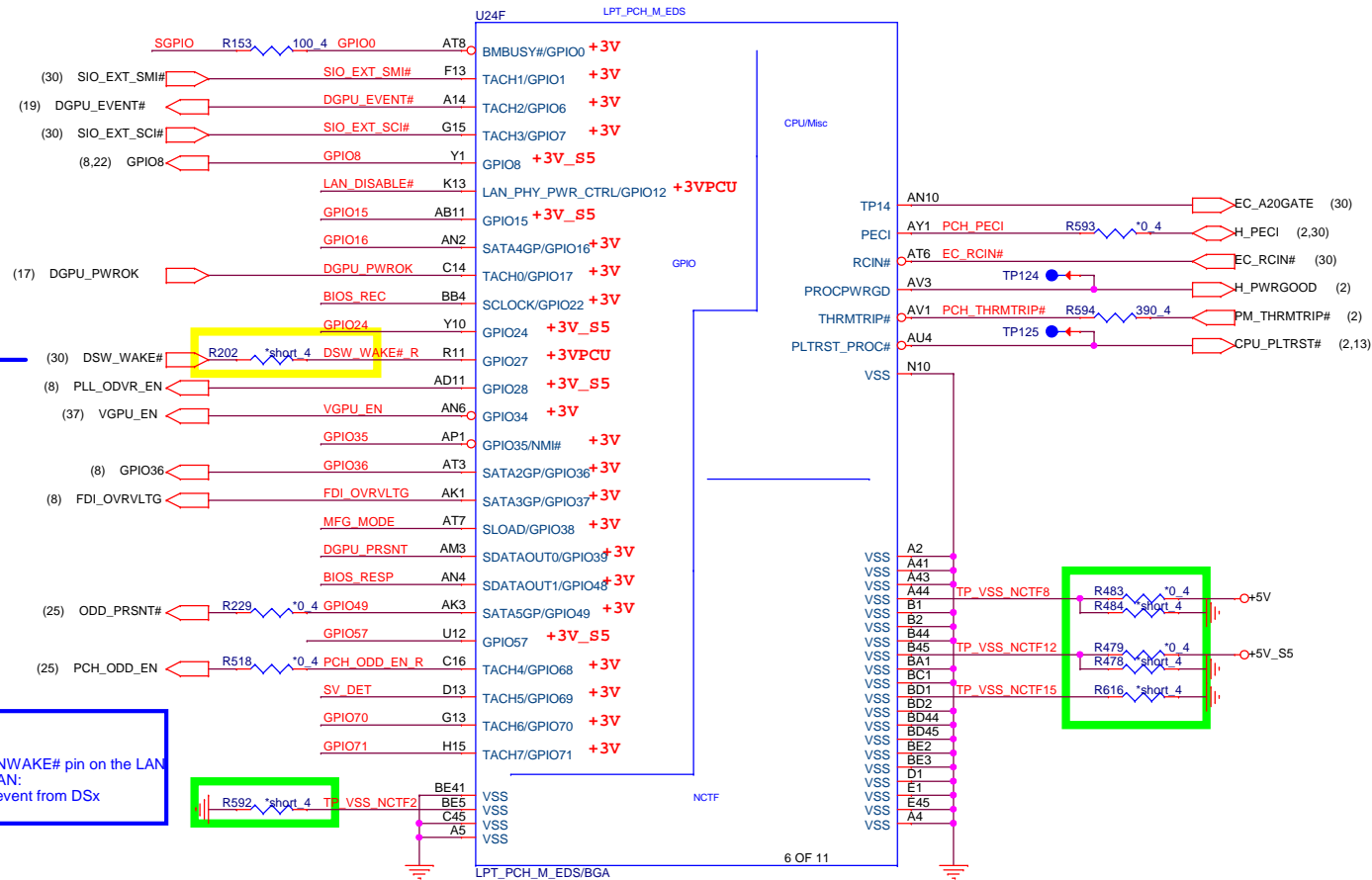
Lynx Point (PCIE,USB3.0,USB2.0)



Lynx Point (CLOCK)



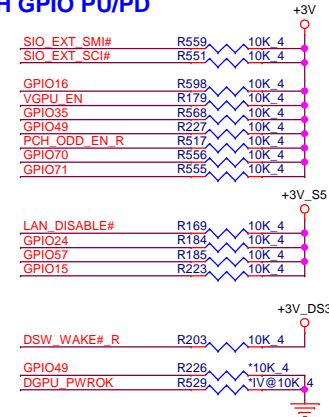
Lynx Point (GPIO,CPU/MISC,NCTF)



XDP Signal



PCH GPIO PU/PD

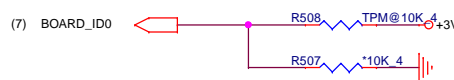


PCH MISC PU/PD



BOARD ID

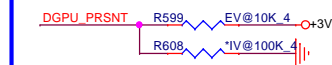
TPM exist or not
0 = No TPM
1 = TPM exist



Reserve:
0 = No xxx
1 = xxx exist

External Gfx Present

0 = Internal Gfx
1 = External Gfx



BIOS RECOVERY

0 = Enable
1 = Disable



Swap GPIO

0 = SGPIO
1 = Default



MFG TEST



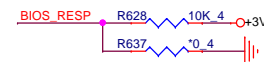
SV Detect

0 = SV Detect
1 = Default



BIOS_RESP

0 = BIOS RESP
1 = Default

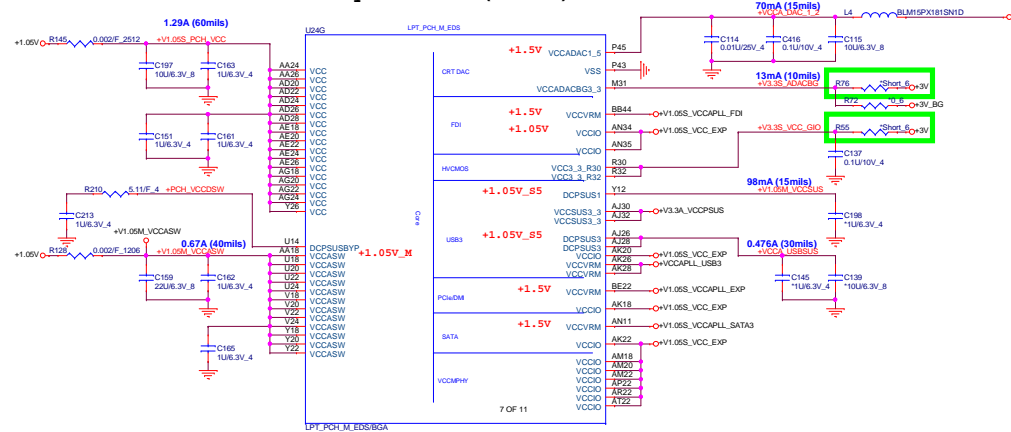


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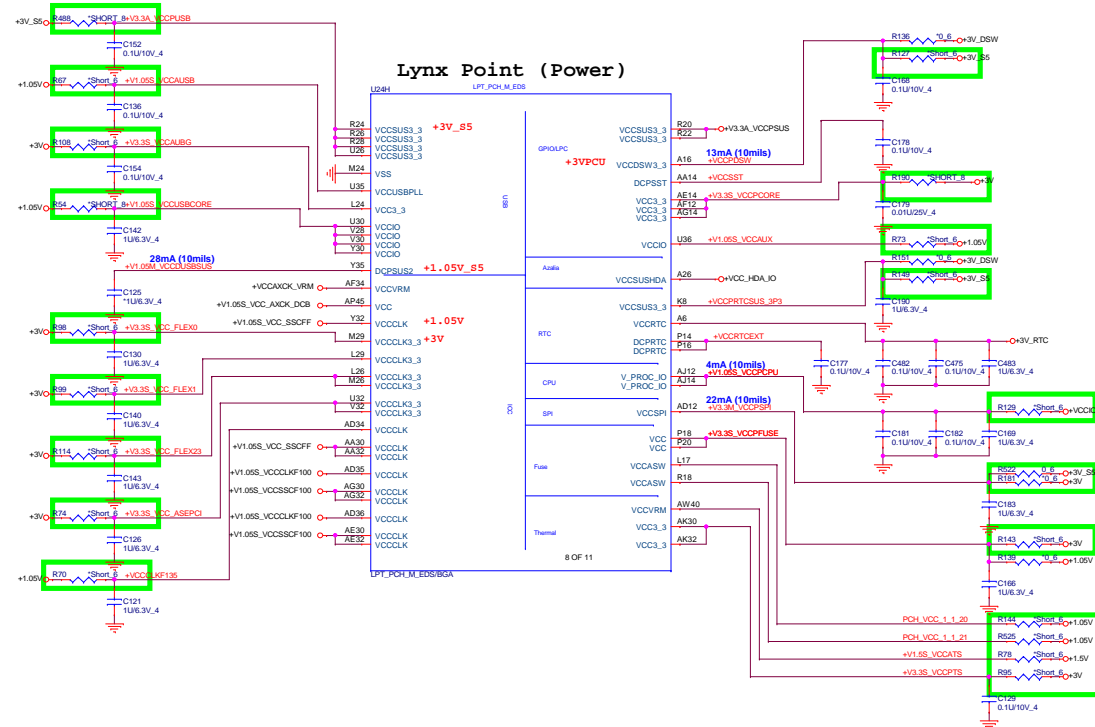
PROJECT : Z8B

Size	Document Number	Rev
	LPT 4/6 (GPIO/MISC)	1A
Date:	Wednesday, July 09, 2014	Sheet 10 of 44

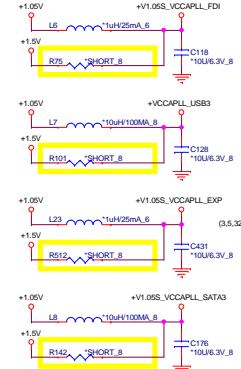
Lynx Point (Power)



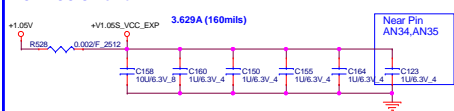
Lynx Point (Power)



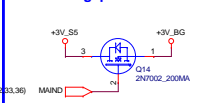
PCH VRM Power 1.05V OPTION IS PROVIDED
0.179A (20mils) FOR VALIDATION PURPOSES



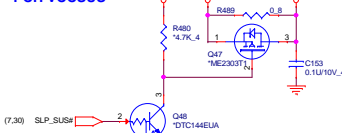
3 PCH VCCIO Power



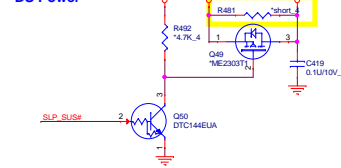
PCH band gap Power



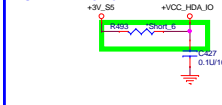
PCH VCCSUS



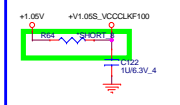
DS Power



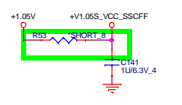
PCH HDA Power 0.01A (10mils)



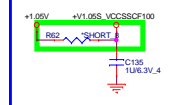
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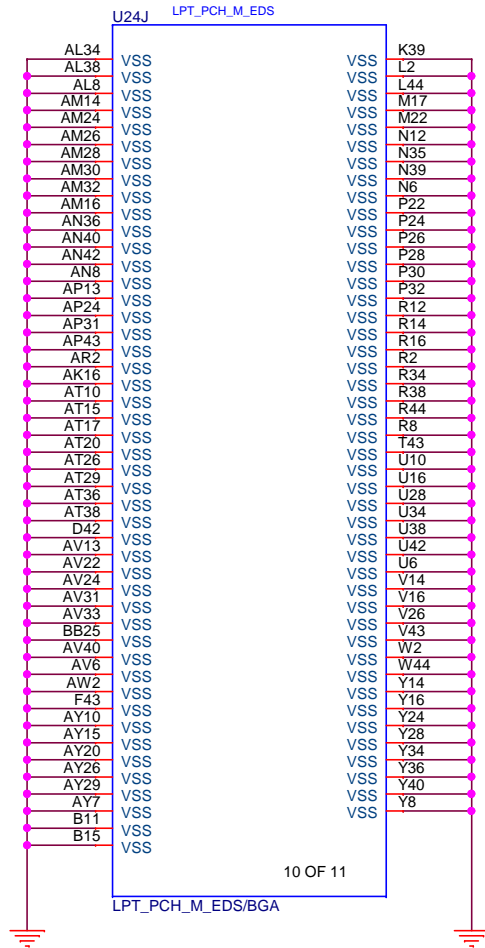
100



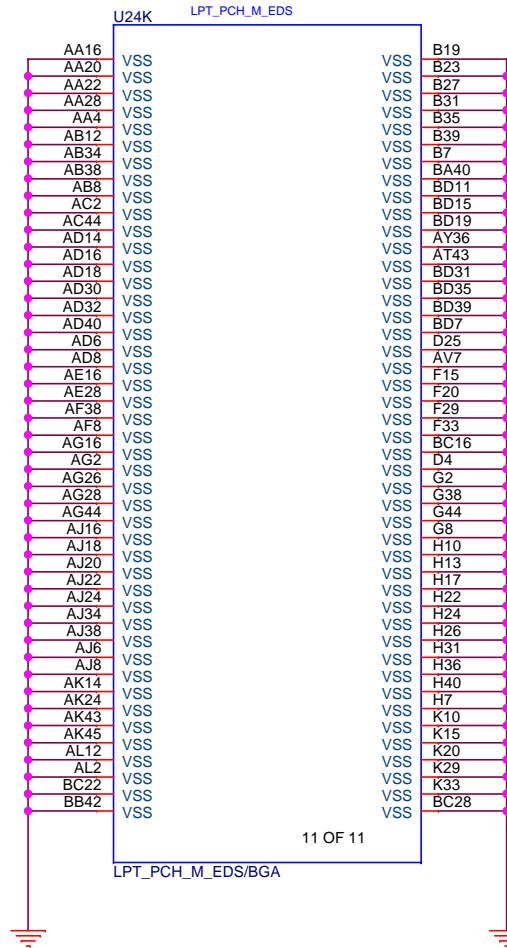
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Lynx Point (GND)



Lynx Point (GND)



Quanta Computer Inc.

PROJECT : Z8B

Size	Document Number	Rev 1A
LPT 6/6 (GND)		
Date:	Tuesday, May 13, 2014	Sheet 12 of 44

(9) CLK_PCIE_XDPP R744 *short 4 CLK_PCIE_XDPP_R
(9) CLK_PCIE_XDPN R745 *short 4 CLK_PCIE_XDPN_R

+1.05V R71 51 4 XDP_TDO

(6) CFG0 R567 *short 4 OBSDAT_A0
(6) CFG1 R563 *short 4 OBSDAT_A1
(6) CFG2 R152 *short 4 OBSDAT_A2
(6) CFG3 R561 *short 4 OBSDAT_A3
(6) CFG4 R148 *short 4 OBSDAT_B0
(6) CFG5 R141 *short 4 OBSDAT_B1
(6) CFG6 R110 *short 4 OBSDAT_B2
(6) CFG7 R132 *short 4 OBSDAT_B3
(21,30) NBSWON# R532 *short 4 CPU_HOOK1
R274 *short 4 PCH_HOOK1
(5) PWR_DEBUG R87 *short 4 CPU_HOOK2
(2,7) XDP_DBRST# R486 *short 4 CPU_HOOK7
R485 *short 4 PCH_HOOK7

(8) SMB_PCH_CLK Q55 2N7002 1 R678 4.7K 4
Q54 2N7002 1 R677 4.7K 4
(8) SMB_PCH_DAT Q54 2N7002 1 R677 4.7K 4

+3V_S5
R642 210/F_4
PCH_JTAG_TDO
R640 100/F_4

CPU XDP

(2) XDP_PREQ# XDP_PREQ# TP94
(2) XDP_PRDY# XDP_PRDY# TP93
OBSDAT_A0 TP120
OBSDAT_A1 TP126
OBSDAT_A2 TP41
OBSDAT_A3 TP121
OBSDAT_B0 TP39
OBSDAT_B1 TP37
OBSDAT_B2 TP31
OBSDAT_B3 TP34
CPU_HOOK1 TP104
CPU_HOOK2 TP162
CLK_PCIE_XDPP_R TP85
CLK_PCIE_XDPN_R TP86
CPU_HOOK7 TP91
SMB_XDP_DAT TP97
SMB_XDP_CLK TP162
(2) XDP_TDO XDP_TDO TP20
(2) XDP_TRST# XDP_TRST# TP18
(2) XDP_TDI XDP_TDI TP90
(2) XDP_TMS XDP_TMS TP88
(2) XDP_TCLK XDP_TCLK TP17
TP64
TP11
TP62

TP84
TP83
TP95
TP92
TP110
TP113
TP100
TP114
TP129
TP105
TP122
TP117
TP99
TP30
TP96
TP97
TP68
TP13
TP109
TP155
TP157
TP176
OBSFN_B0
OBSFN_B1
OBSFN_C0
OBSFN_C1
OBSFN_C2
OBSFN_C3
OBSFN_D0
OBSFN_D1
OBSDAT_D0
OBSDAT_D1
OBSDAT_D2
OBSDAT_D3
CPU_HOOK0
CPU_HOOK6

0.4A (20mils)
+VCC_CPU_XDP +VCCIO_OUT
C407 *0.1U/10V_4
C391 *0.1U/10V_4
R458 *short 4

Stuff R1016, R1138
No stuff R1017, R1137

OBSFN_B0 R491 *short 4 XDP_BPM#0 (2)
OBSFN_B1 R487 *short 4 XDP_BPM#1 (2)
OBSFN_C0 R545 *short 4 CFG17 (6)
R544 *0.4 CFG16 (6)
OBSFN_C1 R547 *0.4 CFG17
R546 *short 4 CFG16
OBSDAT_C0 R516 *short 4 CFG8 (6)
OBSDAT_C1 R550 *short 4 CFG9 (6)
OBSDAT_C2 R587 *short 4 CFG10 (6)
OBSDAT_C3 R539 *short 4 CFG11 (6)
OBSFN_D0 R557 *short 4 CFG19 (6)
R558 *0.4 CFG18 (6)
OBSFN_D1 R552 *0.4 CFG19
R553 *short 4 CFG18
OBSDAT_D0 R504 *short 4 CFG12 (6)
OBSDAT_D1 R103 *short 4 CFG13 (6)
OBSDAT_D2 R502 *short 4 CFG14 (6)
OBSDAT_D3 R511 *short 4 CFG15 (6)
CPU_HOOK0 R51 1K 4 H_PWRGOOD_R (2)
CPU_HOOK6 R540 1K 4 CPU_PLTRST# (2,10)
CPU_HOOK3 R277 *short 4 SPS_PWROK (2,7)

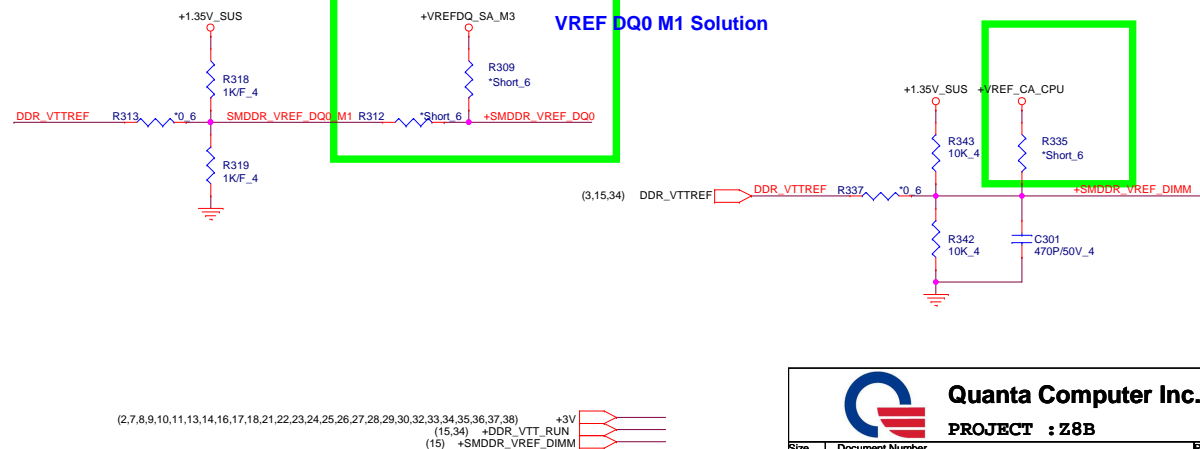
PCH XDP

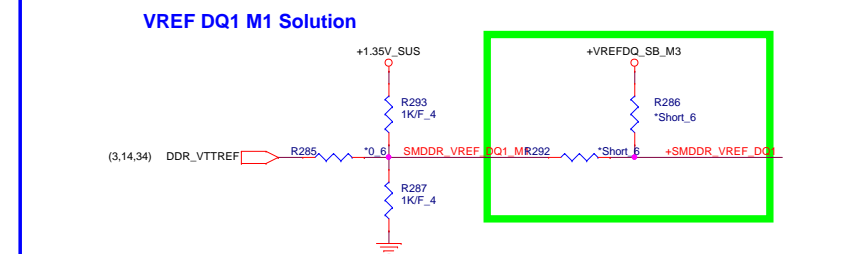
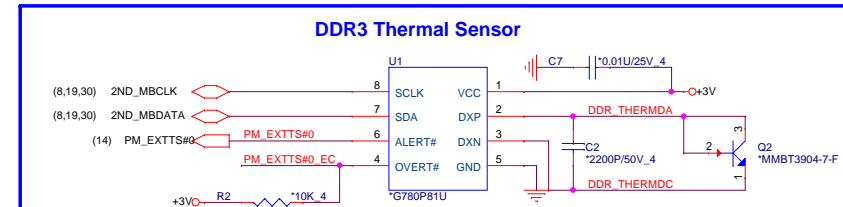
(9) XDP_FN0 XDP_FN0 TP142
(9) XDP_FN1 XDP_FN1 TP138
(9) XDP_FN2 XDP_FN2 TP134
(9) XDP_FN3 XDP_FN3 TP148
(9) XDP_FN4 XDP_FN4 TP152
(9) XDP_FN5 XDP_FN5 TP145
(9) XDP_FN6 XDP_FN6 TP147
(9) XDP_FN7 XDP_FN7 TP131
PCH_HOOK1 TP66
+1.05V TP101
PCH_HOOK7 TP89
SMB_XDP_DAT TP158
SMB_XDP_CLK TP161
PCH_JTAG_TDO TP144
(8) PCH_JTAG_TDO PM_TEST_RST# TP58
(8) PCH_JTAG_TDI PCH_JTAG_TDI TP137
(8) PCH_JTAG_TMS PCH_JTAG_TMS TP154
(8) PCH_JTAG_TCK PCH_JTAG_TCK TP149
TP164
TP77
TP159

+VCC_PCH_XDP +3V_S5
R720 *short 4
TP168
TP167
XDP_FN_CLK1 XDP_FN_CLK1 (10)
XDP_FN_CLK2 XDP_FN_CLK2 (10)
XDP_FN8 XDP_FN8 (8)
XDP_FN9 XDP_FN9 (8)
XDP_FN10 XDP_FN10 (10)
XDP_FN11 XDP_FN11 (10)
XDP_FN12 XDP_FN12 (10)
XDP_FN13 XDP_FN13 (10)
XDP_FN14 XDP_FN14 (9)
XDP_FN15 XDP_FN15 (9)
R639 1K 4
R326 1K 4
TP153
TP72
TP71
TP76
TP74
RSMRST# (7,30)
EC_PWROK (7,30,35)



Quanta Computer Inc.
PROJECT : Z8B

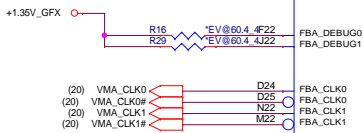
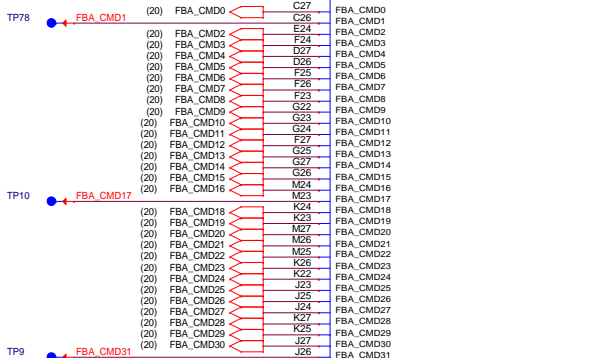
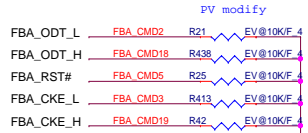
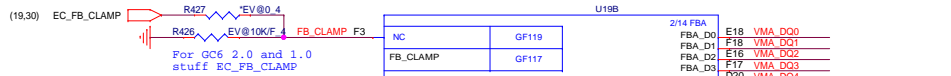




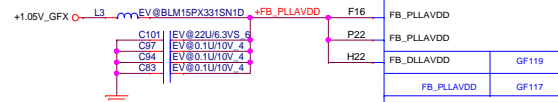
The schematic diagram illustrates the power plane layout for the 100-pin connector, showing three main power planes and their associated decoupling capacitors:

- +1.35V_SUS:** This plane is connected to a 3V supply and includes decoupling capacitors C257, C249, C224, C223, C275, C253, C252, C280, C254, C255, C298, C251, and C256. The capacitors are connected to ground, which is indicated by a ground symbol.
- +DDR_VTT_RUN:** This plane is connected to a 3V supply and includes decoupling capacitors C259, C239, C250, C236, C241, and C246. The capacitors are connected to ground, which is indicated by a ground symbol.
- +SMDDR_VREF_DIMM:** This plane is connected to a 3V supply and includes decoupling capacitors C248 and C258. The capacitors are connected to ground, which is indicated by a ground symbol.

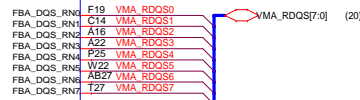
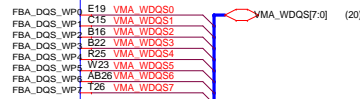
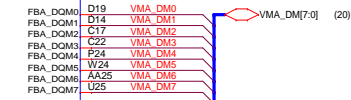




FB_PLLAVDD = 55mA

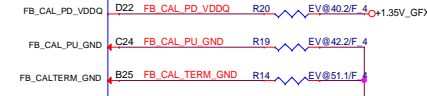
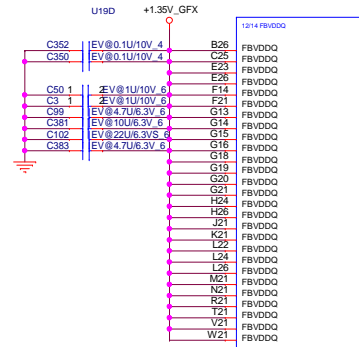


FB_DLLAVDD = 15mA

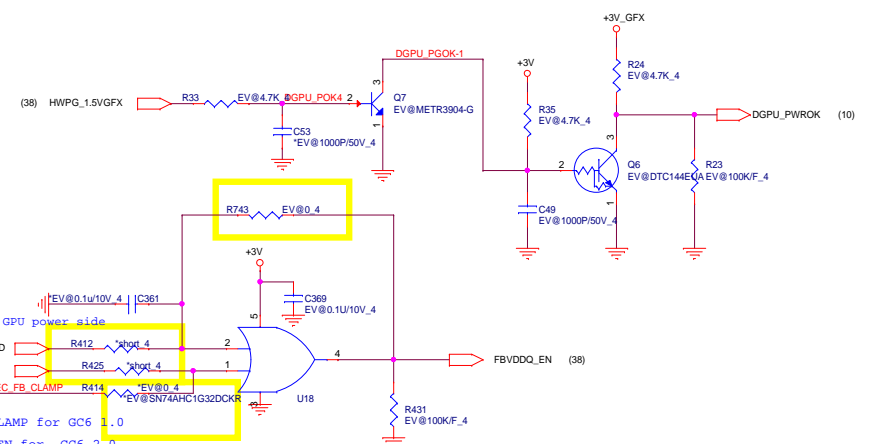


FB_VREF_PROBE D23

COMMON



COMMON



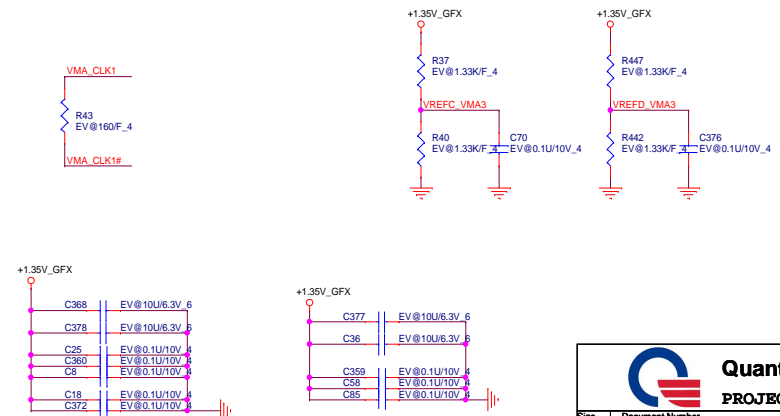
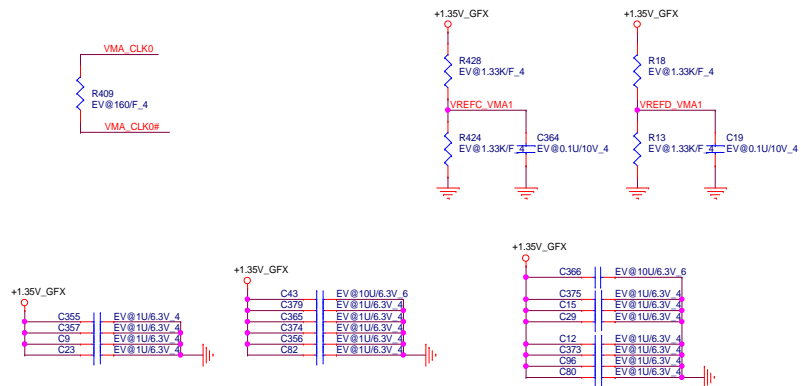
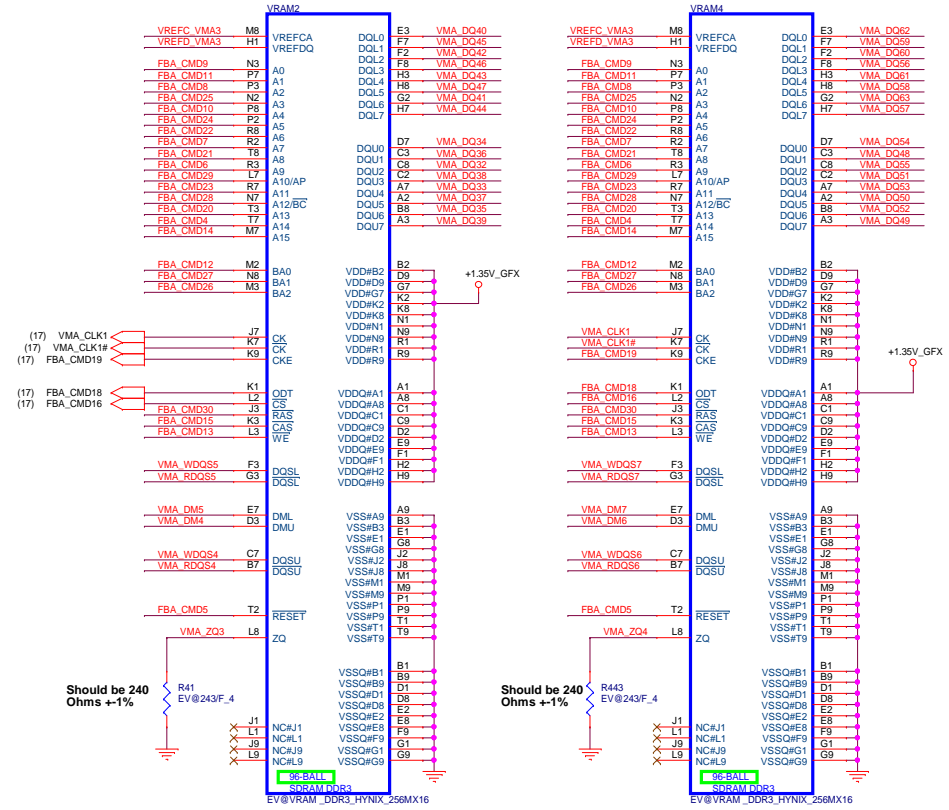
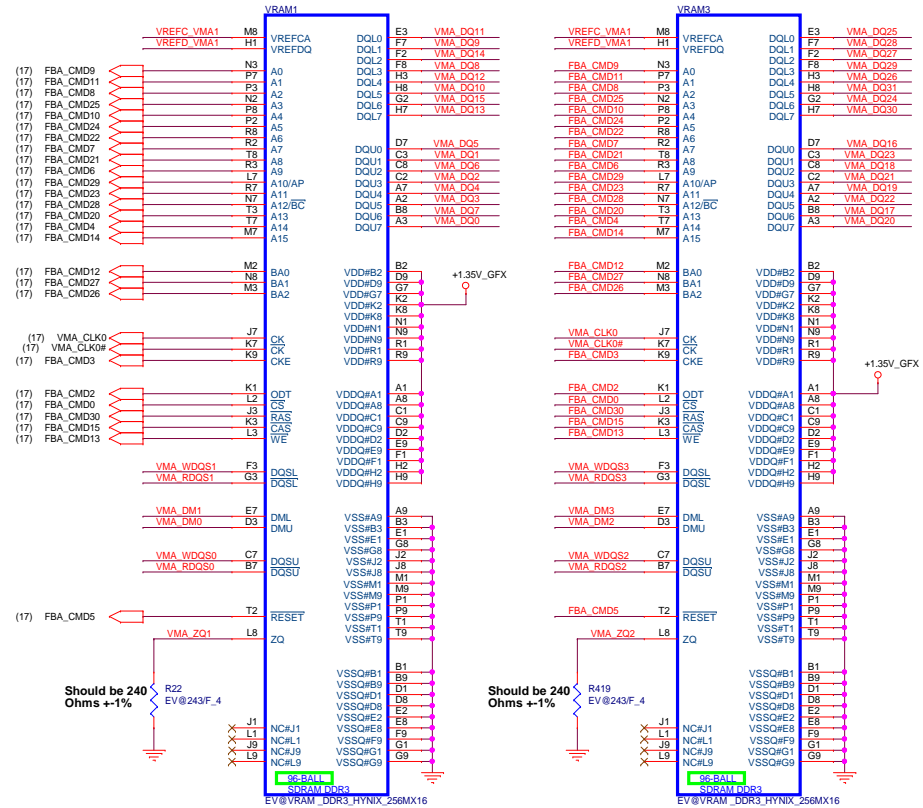


CHANNEL A: 256MB/512MB DDR3

```

HYU 256Mx16, PN : AKD5PGWTW08---AKD5PGWTW07
HYU 128Mx16, PN : AKD5MZDTW03---AKD5MZDTW02
                QBC                TOP B/S
SAM 256Mx16, PN : AKD5PZDT501---AKD5PZDT500
SAM 128Mx16, PN : AKD5MGGT535---AKD5MGGT534

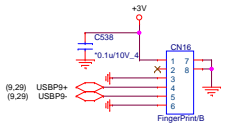
```



DP TO VGA

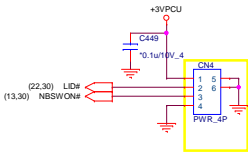
1A-1 2013/10/15 Change VGA ITE soltion to NXP.
1A-5 2013/10/18 Change VGA NXP soltion to ITE.

FingerPrint Conn



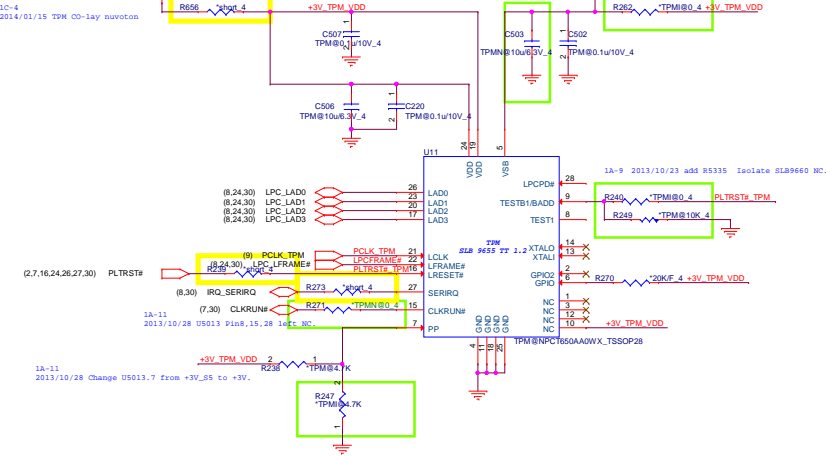
1A-7 2013/10/22 Change CN4 to 6pin.
1B-6 2013/12/18 Change CN5 USB port to port2.

Power Button/Conn



1A-1 2013/10/15 change to 6pin.
1B-2 2013/12/3 change to 4pin.
1B-3 2013/12/10 change CN6 footprint.

TPM



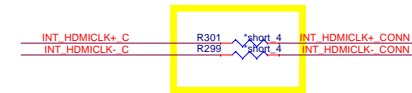
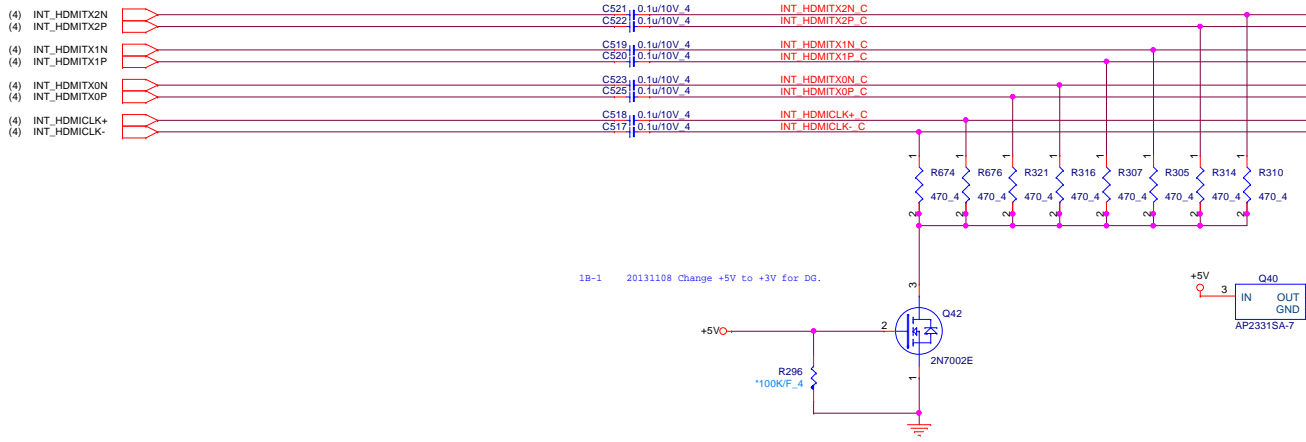
TPM1@-->for SLB9655		
TPM0@-->for NuvoTon		
R259	Un-stuff	stuff
C503	Un-stuff	stuff
R271	Un-stuff	stuff
R247	stuff	Un-stuff
R240	stuff	Un-stuff
R262	stuff	Un-stuff

Green CLK Gen

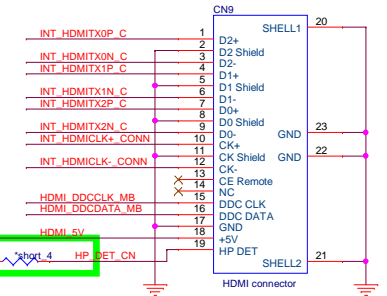
1B-4 2013/12/13 remove Green CLK U9

HDMI

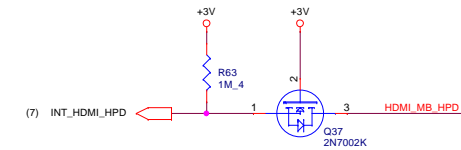
From PCH



HDMI connector

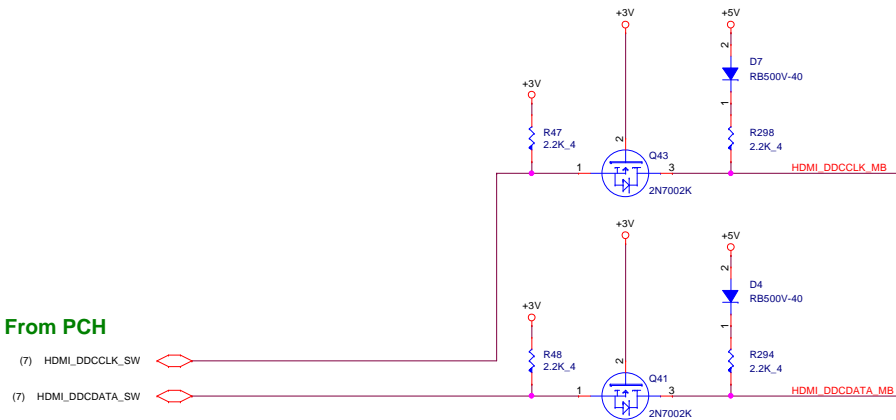


HDMI-detect

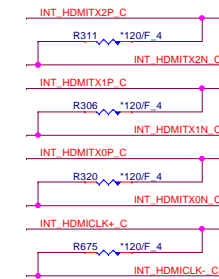


I2C

From PCH



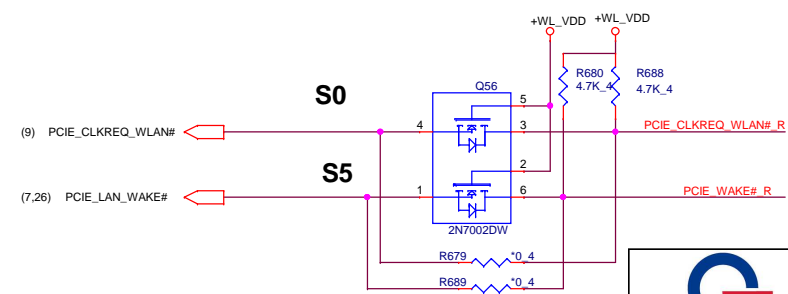
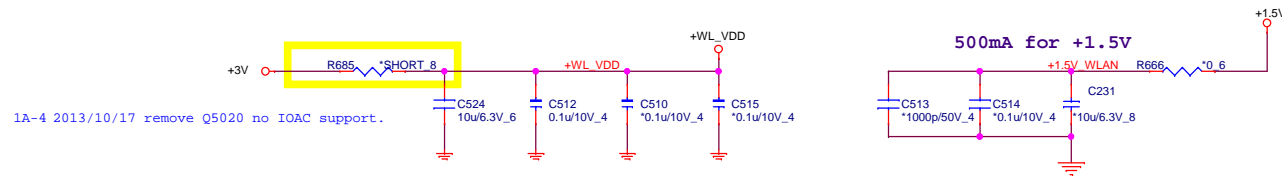
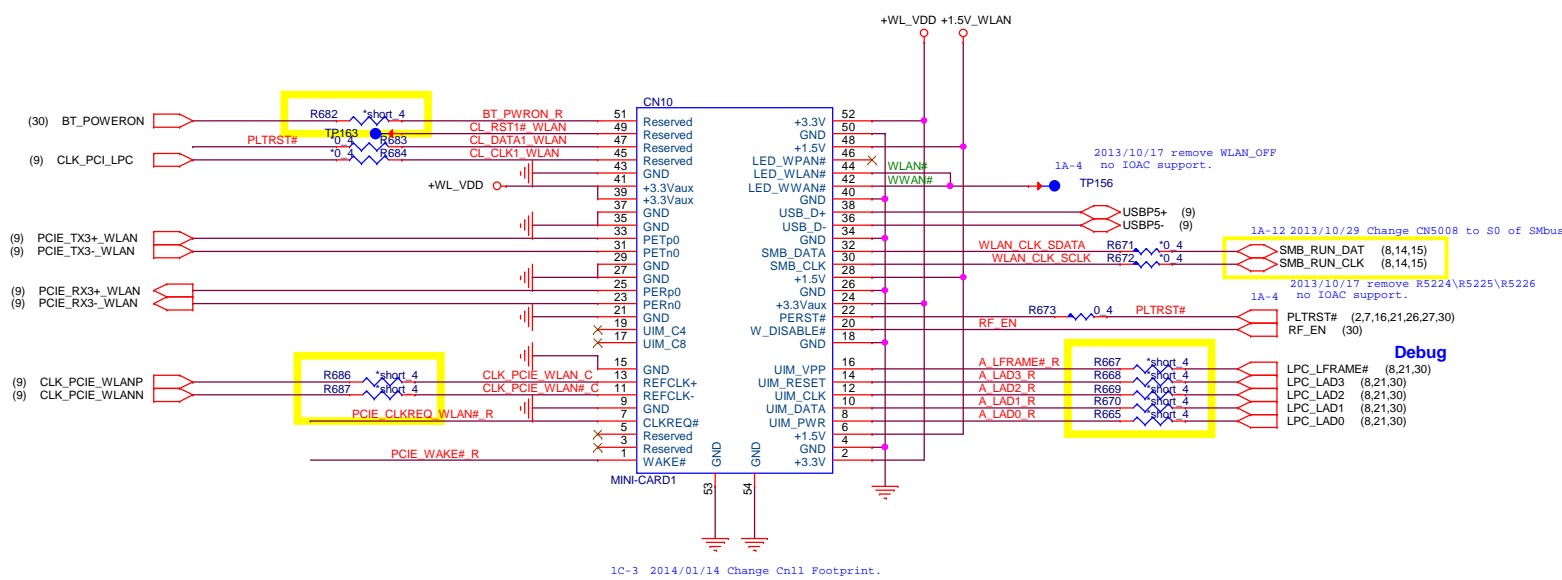
EMI



Power trace tracking

(2,7,8,9,10,11,13,14,15,16,17,18,21,22,24,25,26,27,28,29,30,32,33,34,35,36,37,38) +3V
(7,8,10,21,22,25,28,29,32,36) +5V

24 Mini Card 1 (MNC)

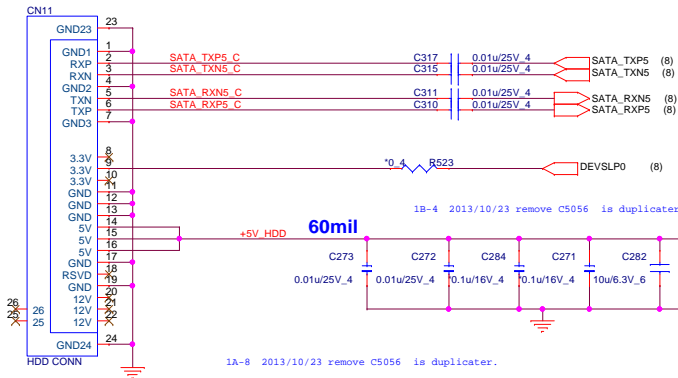


Quanta Computer Inc.
PROJECT : Z8B

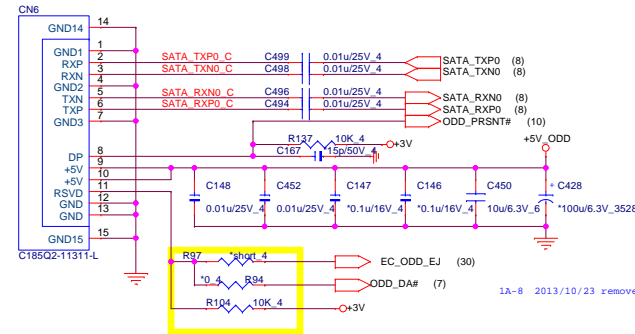
Size	Document Number	Rev
		1A
Mini-Card/WL/3G/SIM		
Date: Wednesday, July 09, 2014	Sheet 24 of 44	

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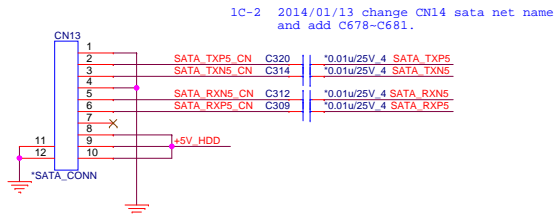
2.5" SATA HDD (HDD)



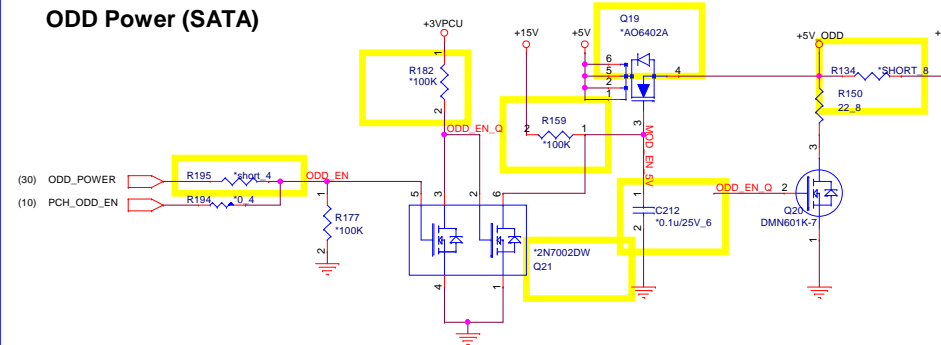
SATA ODD Connector



FFC Type SATA HDD CON



ODD Power (SATA)



POWER LED

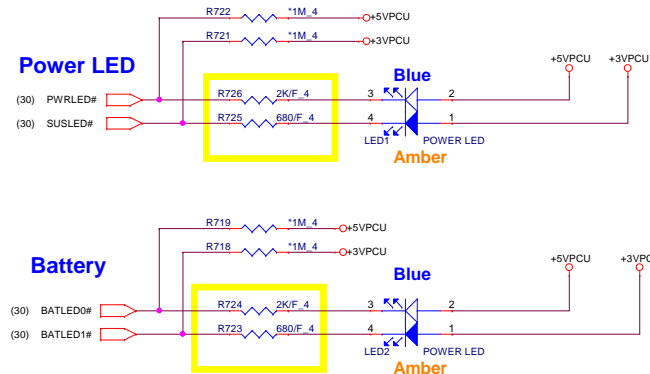
1A-9 2013/10/17 Change power LED from +3VPCU to +3V_S5.

1A-10 2013/10/25 change LED from 3pin to 4pin. for acer request.

1A-11 2013/10/28 change LED from 4pin to 3pin. and power LED to +3VPCU.

1B-2 2013/12/03 change LED from 3pin to 4pin.

1C1-1 2014/02/06 change Blue LED power rail to +5VPCU.



Quanta Computer Inc.
PROJECT : Z8B

Size Document Number
SATA HDD/LED/SW
Date: Monday, July 14, 2014 Sheet 25 of 44 Rev 1A

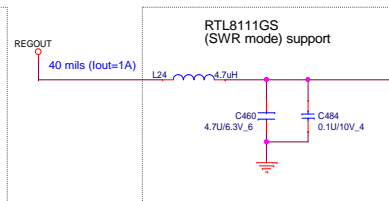
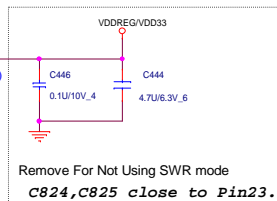
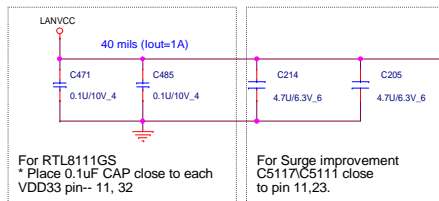
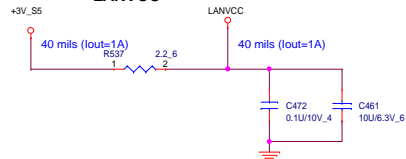
Power trace tracking

(2,7,8,9,10,11,13,21,27,29,30,32,35,37)

+3V_S5

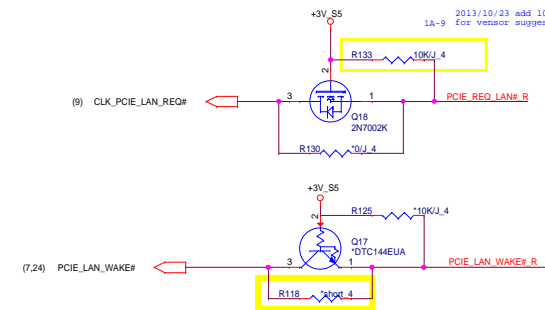
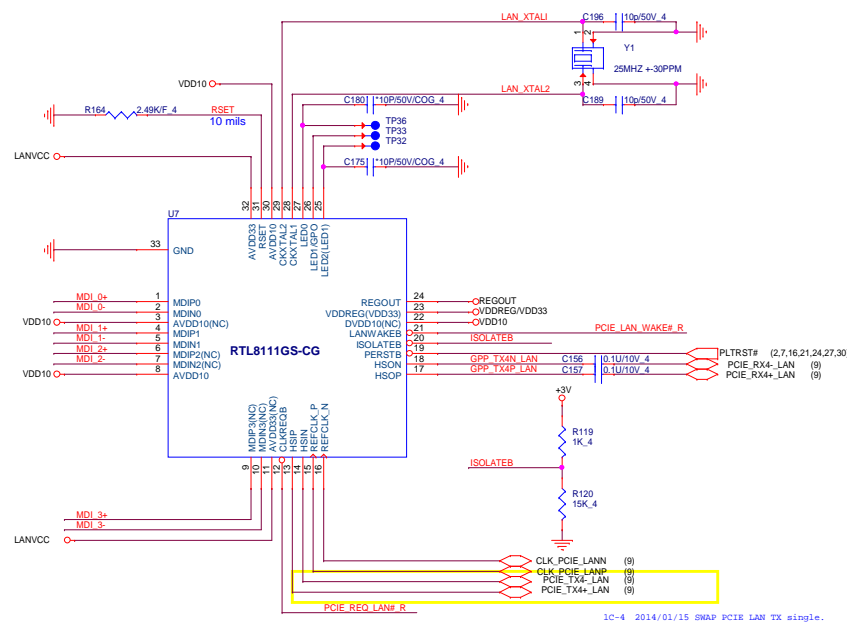
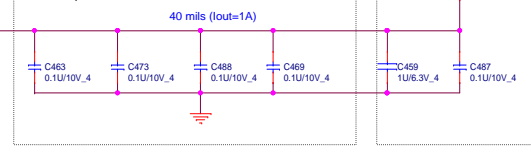
+3V

LANVCC

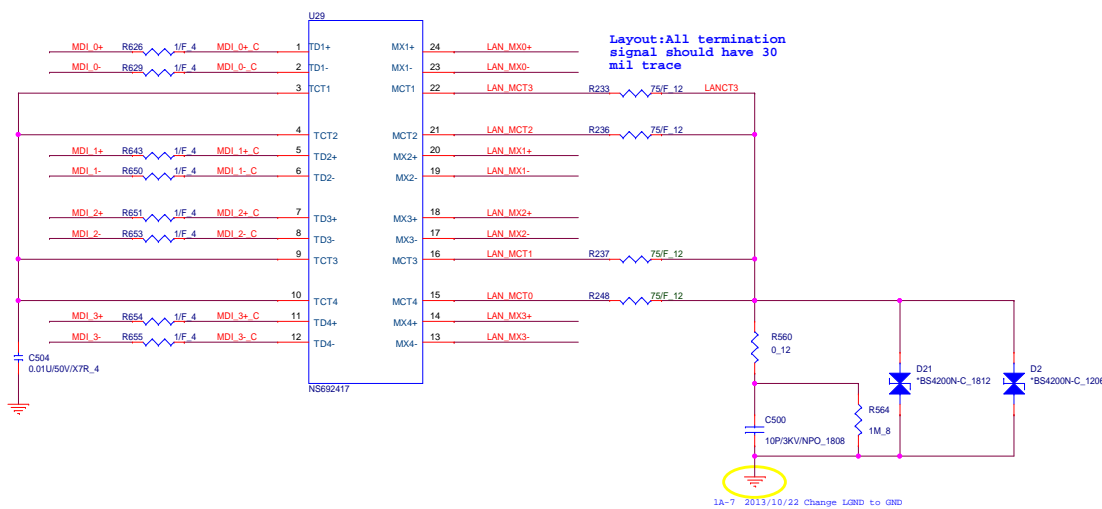
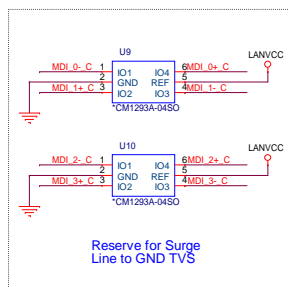


For RTL8111G(S)
* Place 1uF CAP close to each VDD10 pin-- 22 (reserve)

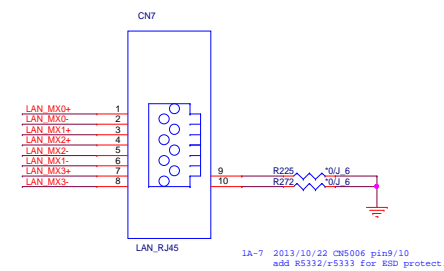
For RTL8111G(S)
* Place 0.1uF CAP close to each VDD10 pin-- 3, 8, 22, 30

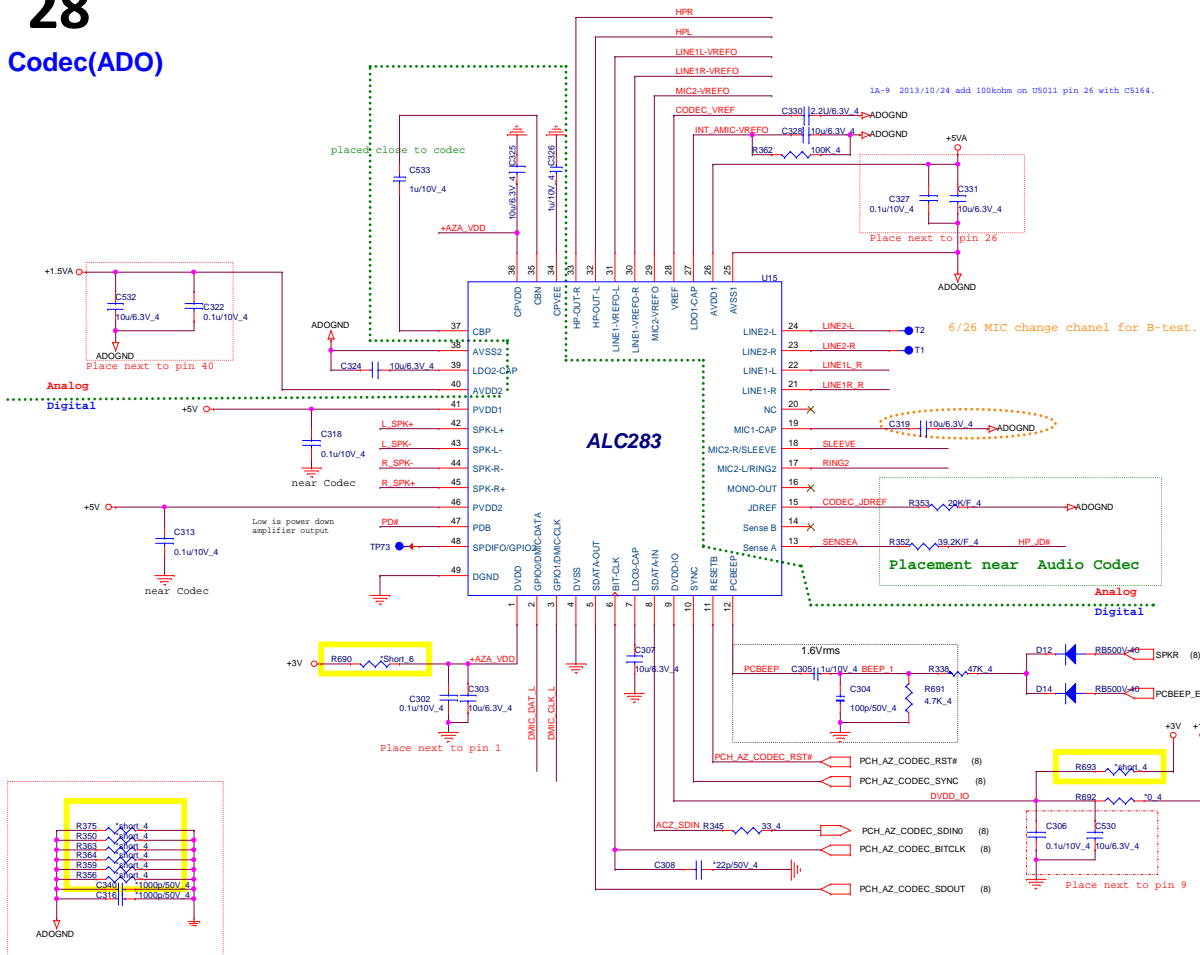


Transformer

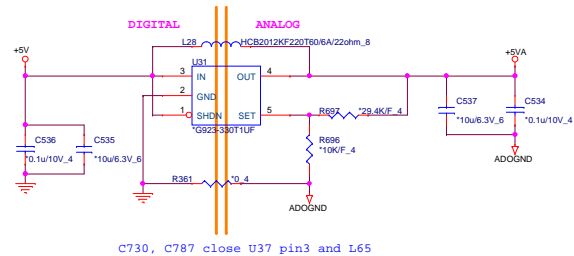


RJ45 Connector



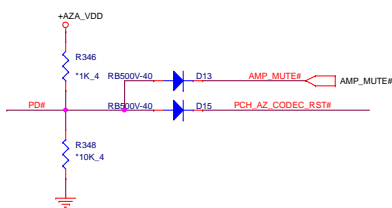


Codec PWR 5V(ADO)

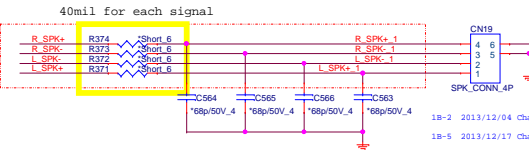


C730, C787 close U37 pin3 and L65

Mute(ADO)



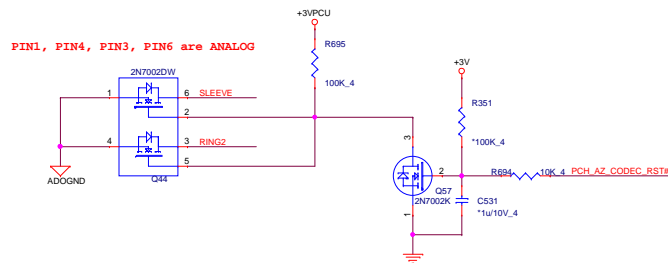
Internal Speaker



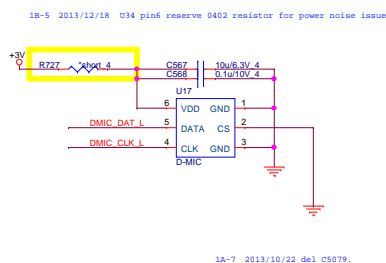
1B-2 2013/12/04 Change PW and footprint.

1B-5 2013/12/17 Change Q14 pin define

Grounding circuit(ADO)

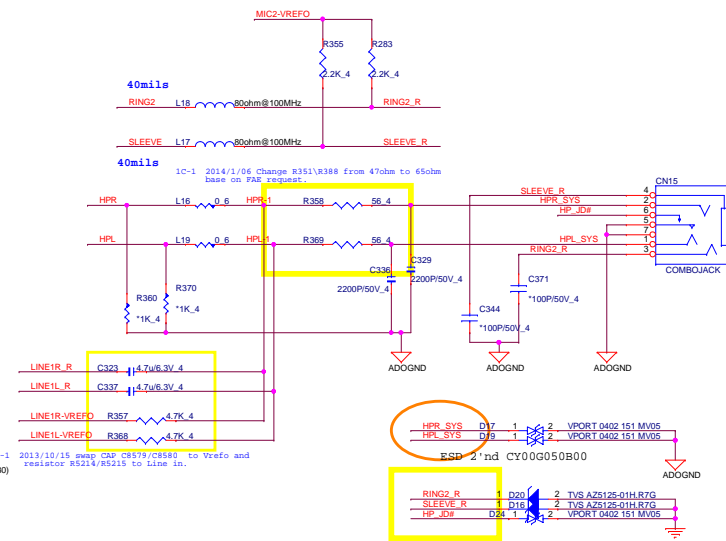


D-Mic



1A-7 2013/10/22 del C5079

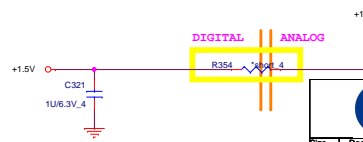
Universal Audio Jack

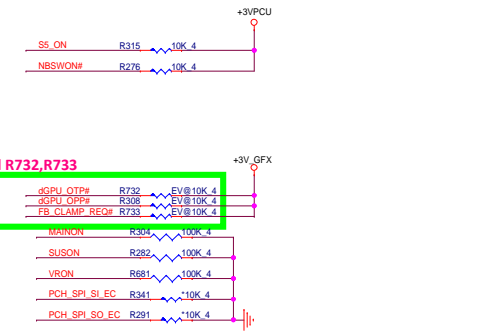
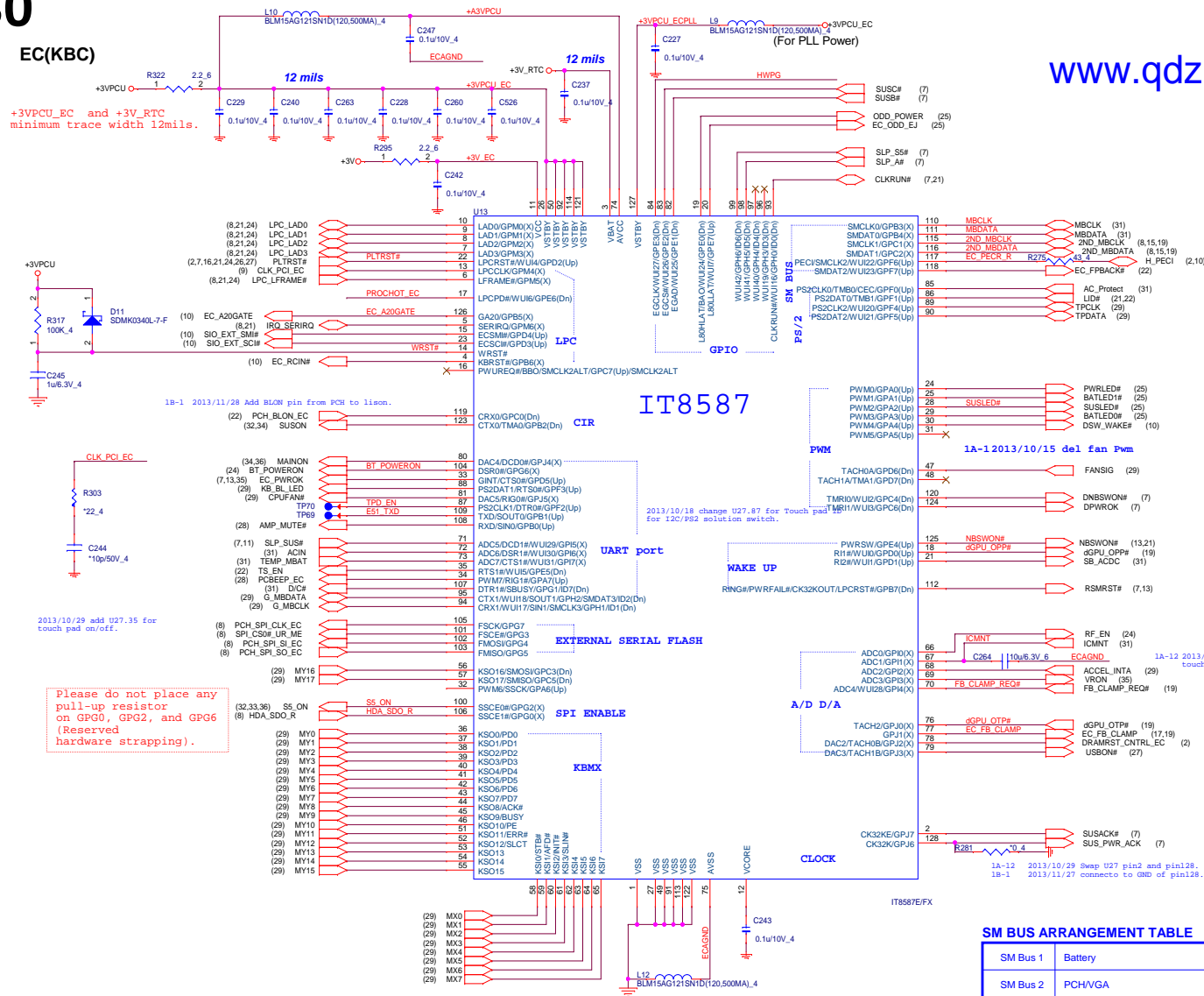


LA-1 2013/10/15 swap CAP C8579/C8580 to Vref0 and
resistor R5214/R5215 to Line in.

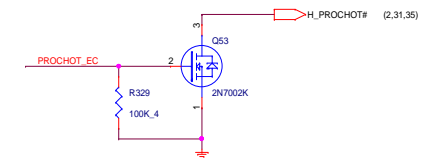
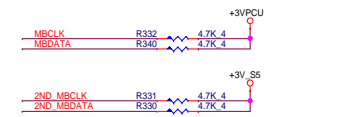
(30) resistor R5214/R5215 to Line in.

Codec PWR 3V/1.5V(ADO)

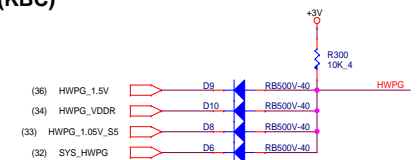




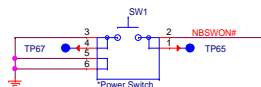
SM BUS PU(KBC)



HWPG(KBC)



For test only

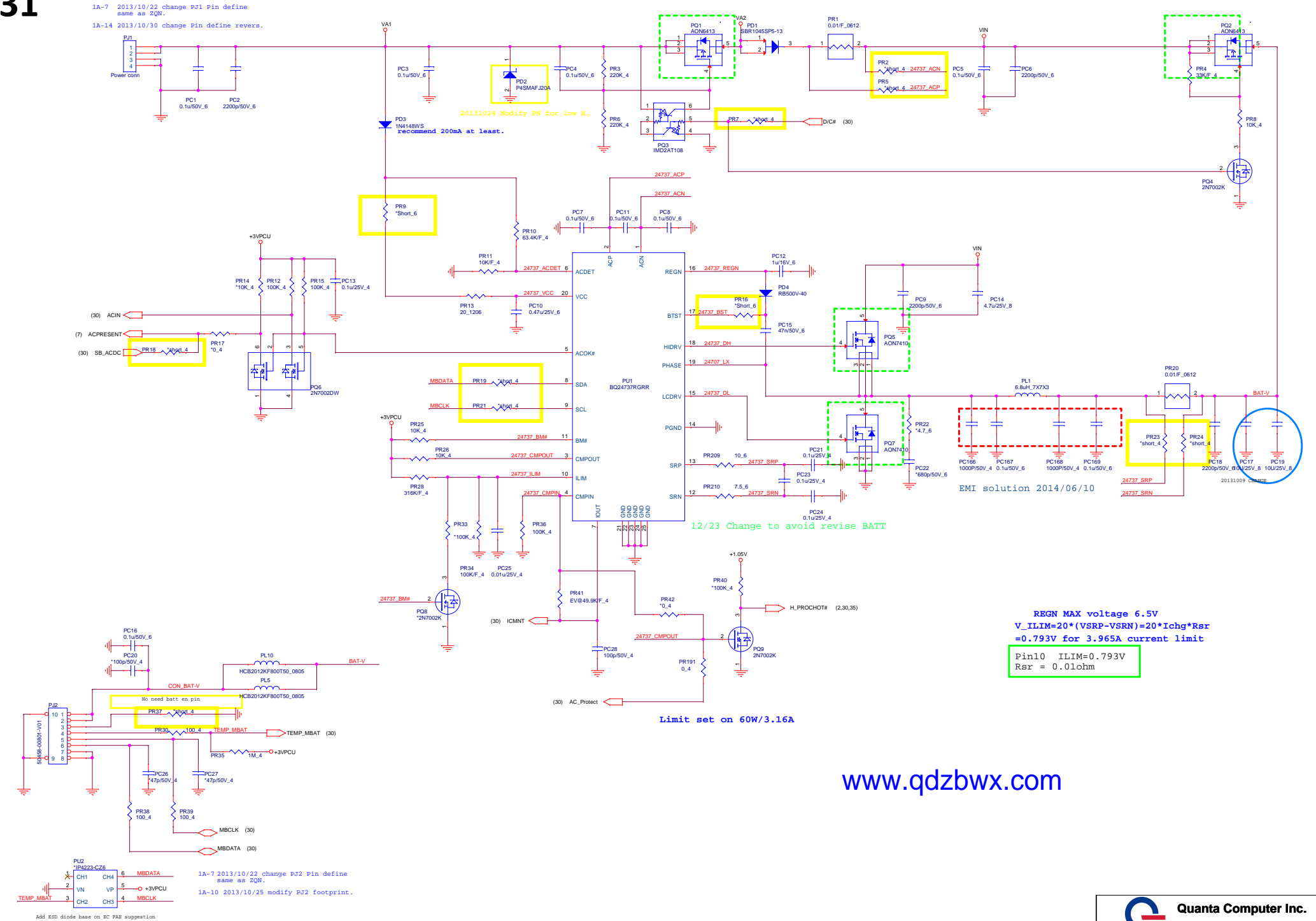


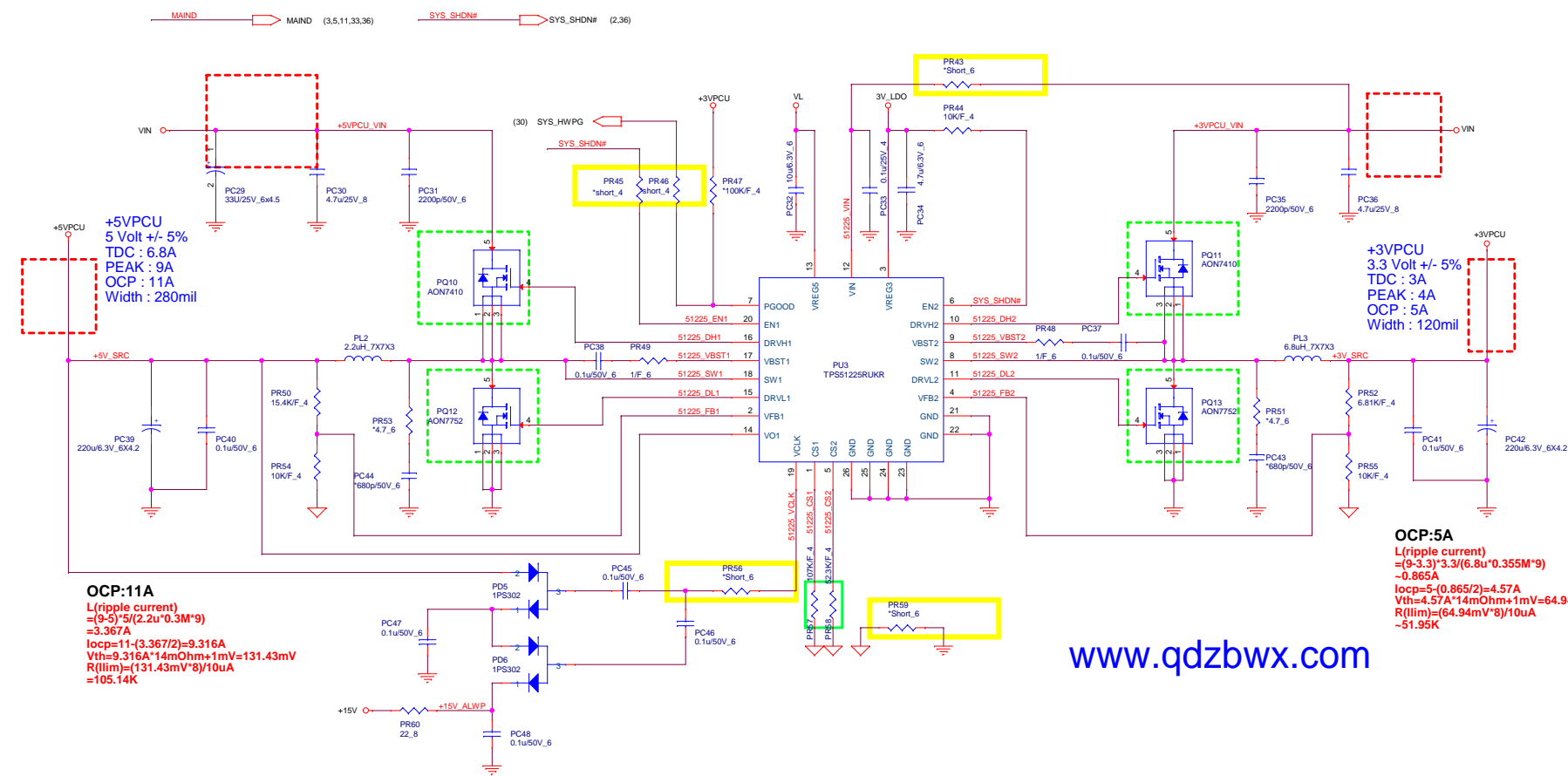
iRST

1A-4 2013/10/17 Del U22 becuse no support IOAC

SM BUS ARRANGEMENT TABLE

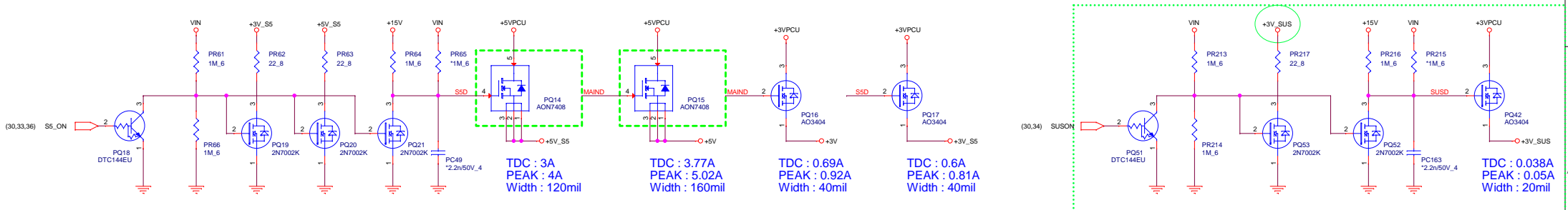
SM Bus 1	Battery
SM Bus 2	PCH/VGA
SM Bus 3	G-Snesor
SM Bus 4	

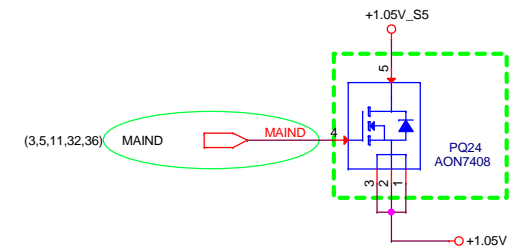
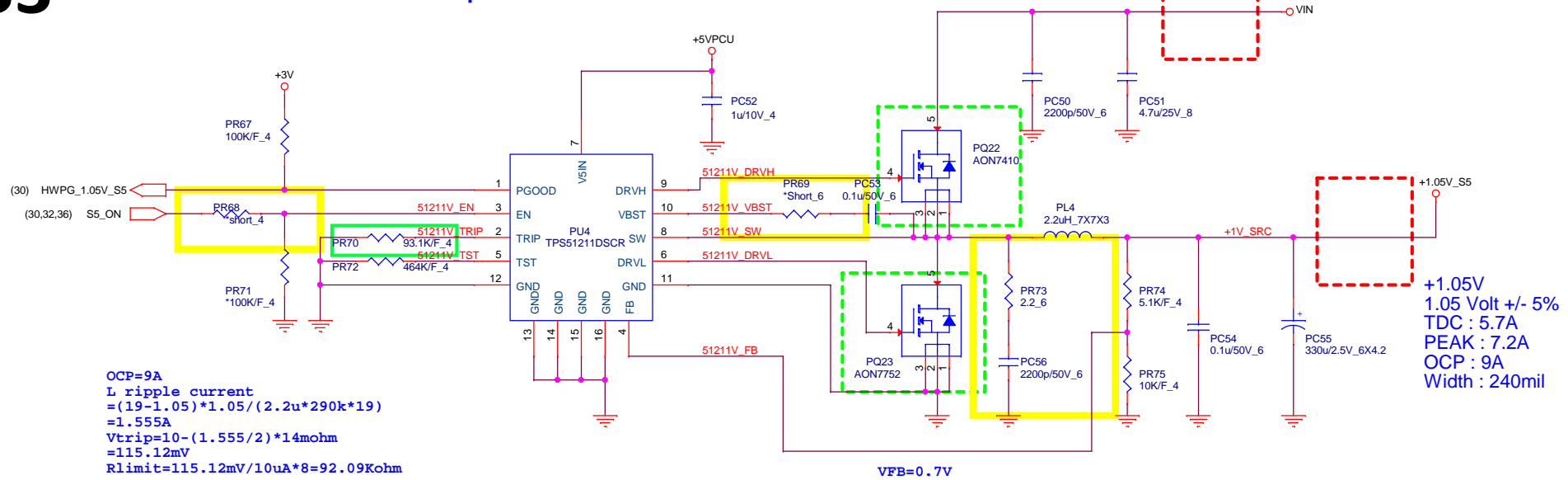




www.qdzbxw.com

1/13 Adding +3V_SUS power for touch pad
(By acer request)



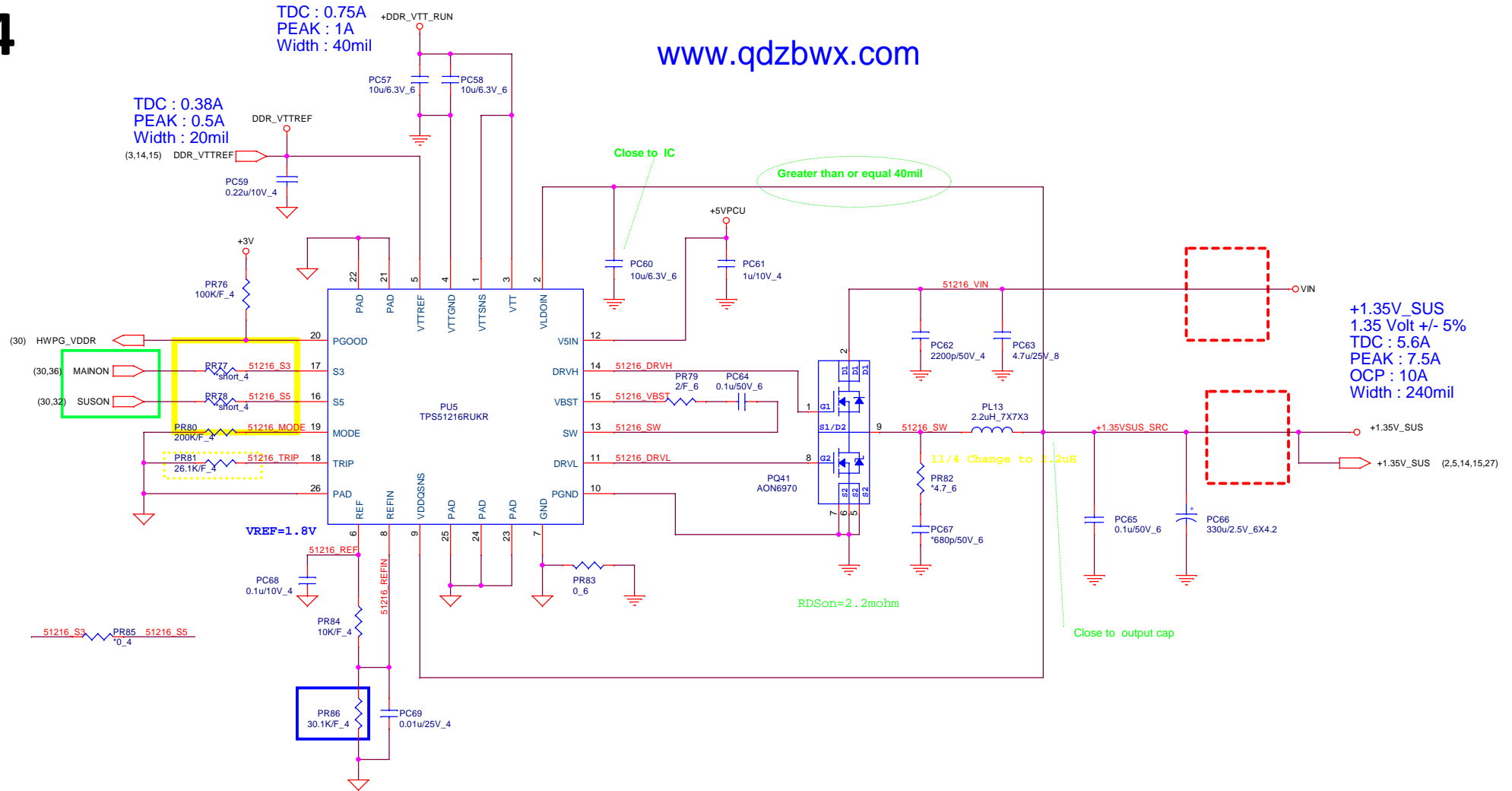


Quanta Computer Inc.

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Size	Document Number	Rev
	+1.05V_S5 (TPS51211)	1A

Date: Monday, July 14, 2014 Sheet 33 of 44



OCP=10A
L ripple current

$$= (19 - 1.35) \times 1.35 / (2.2 \mu\text{H} \times 400\text{K} \times 19)$$

$$= 1.425\text{A}$$

$$V_{\text{trip}} = 10 - (1.425 / 2) \times 2.2\text{mohm}$$

$$= 20.432\text{mV}$$

$$R_{\text{limit}} = 20.432\text{mV} / 10\mu\text{A} \times 8 = 16.35\text{Kohm}$$

DDR=1.35V
 PR84=10K/F_4
 PR86=30.1K/F_4

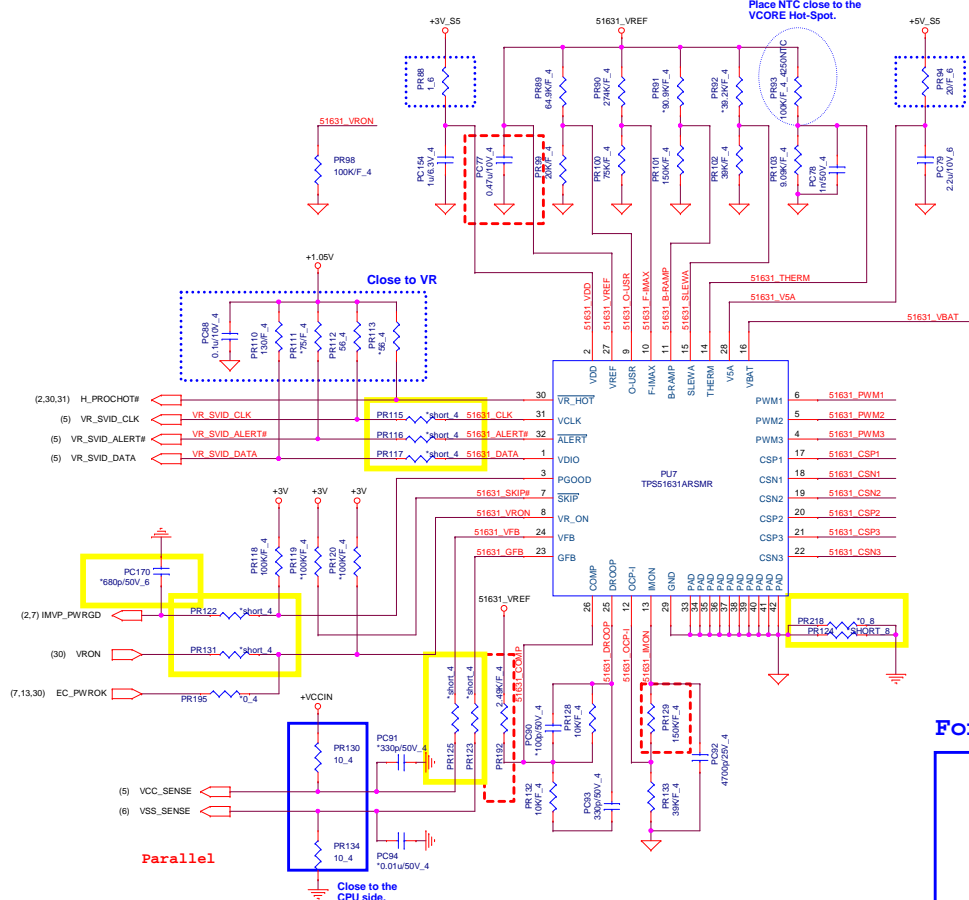
Mode	Frequency	Discharge mode
200K	400K	Tracking Discharge
100K	300K	Tracking Discharge

	S3	S5	+1.35VSUS	REF	VTT
S0	1	1	ON	ON	ON
S3 (mainon off)	0	1	ON	ON	OFF
S4/S5	0	0	OFF	OFF	OFF

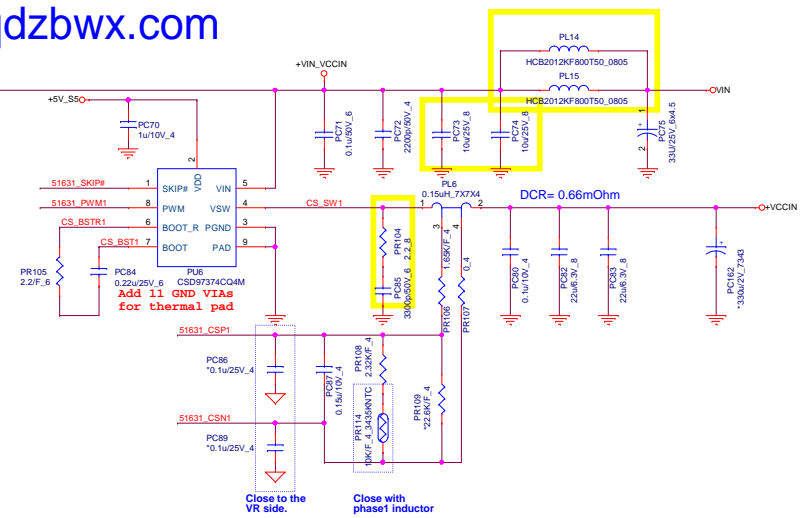
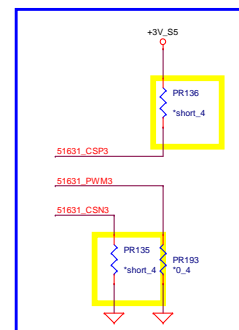


Quanta Computer Inc.
PROJECT : Z8B

Size: Document Number: **DDR 1.35V(TPS51216)** Rev: 1A
 Date: Monday, July 14, 2014 Sheet: 34 of 44



For Sharkbay 37W

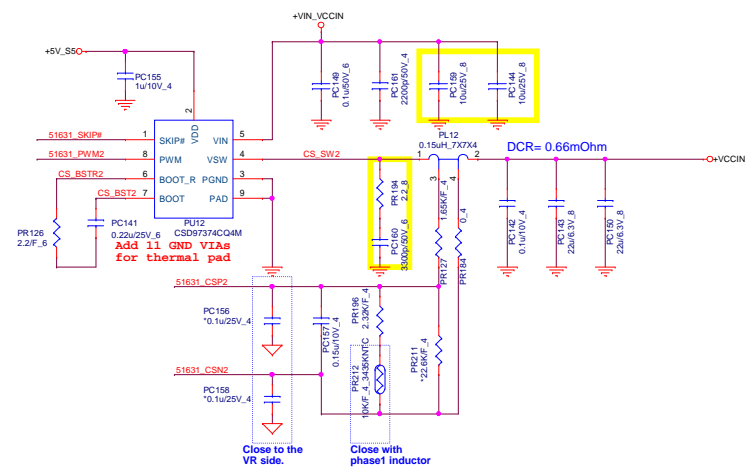


Shark Bay 37W

lcc TDC PL2 : 26A
lcc Max : 55A
OCP : 70A
Fsw : 800KHz

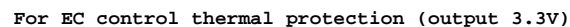
VCORE L/L :

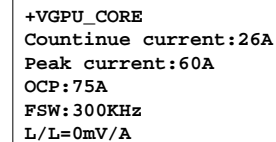
R_DC_LL : - 1.5mV/A
R_AC_LL : - 3.6mV/A



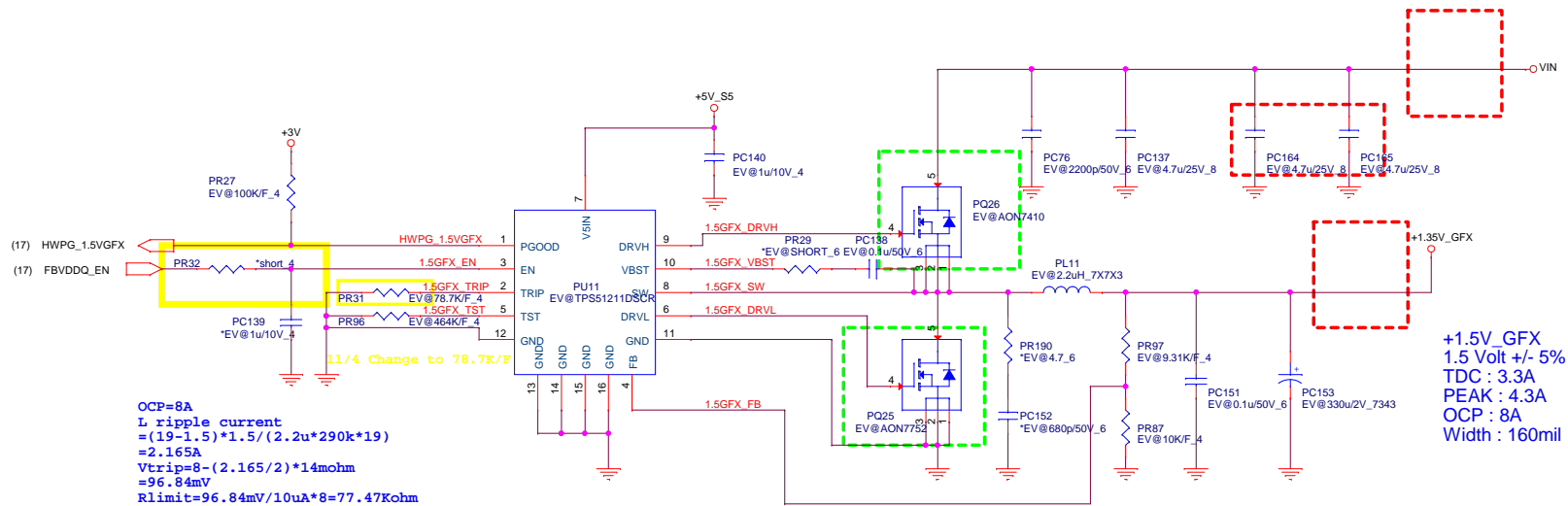
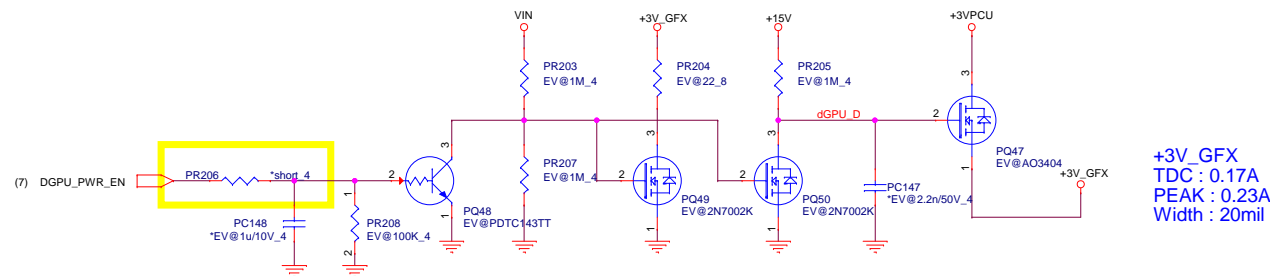
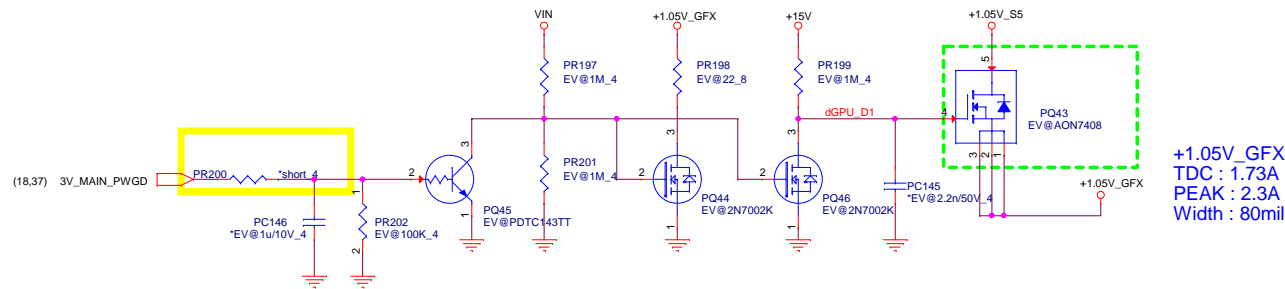


Need fine tune
for thermal protect point
Note placement position
TEMP=85C





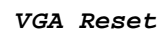
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(17,20,27) +1.35V_GFX
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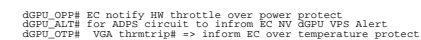
Quanta Computer Inc.

PROJECT : Z8B

Size	Document Number	Rev
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Date:	Monday, July 14, 2014	Sheet 38 of 44

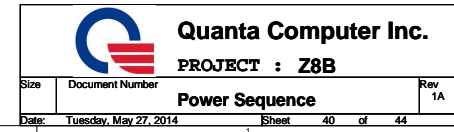


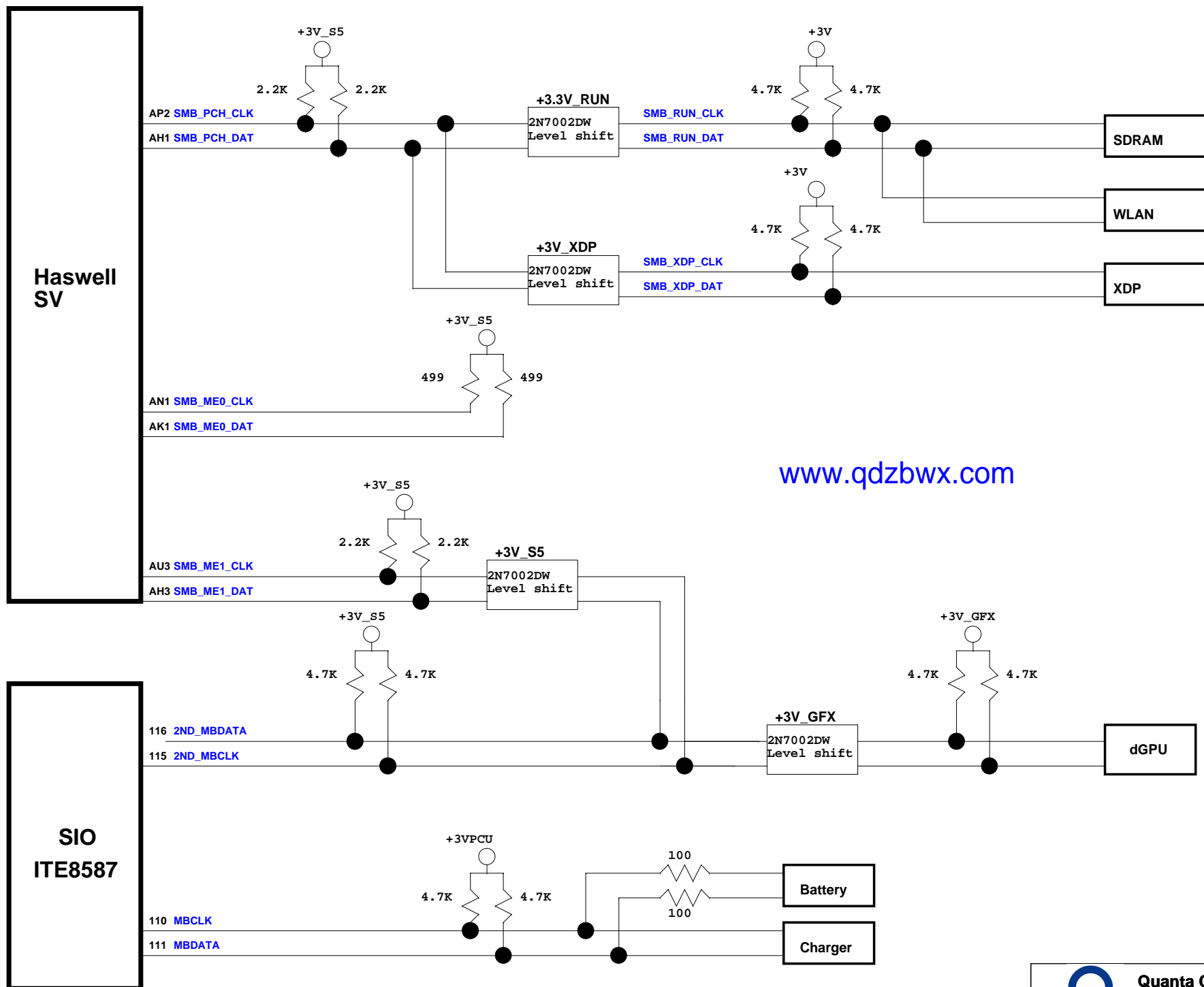
Thermal Follow Chart



Non Deep Sx

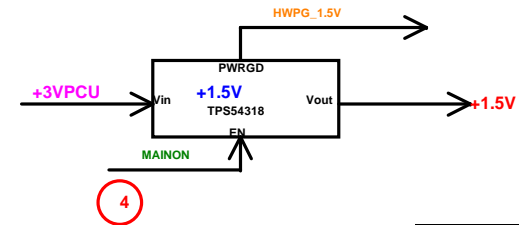
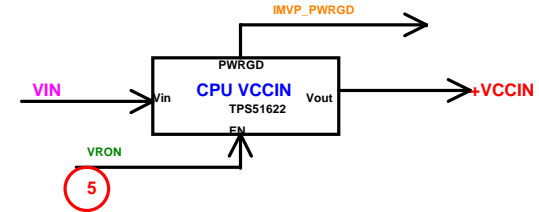
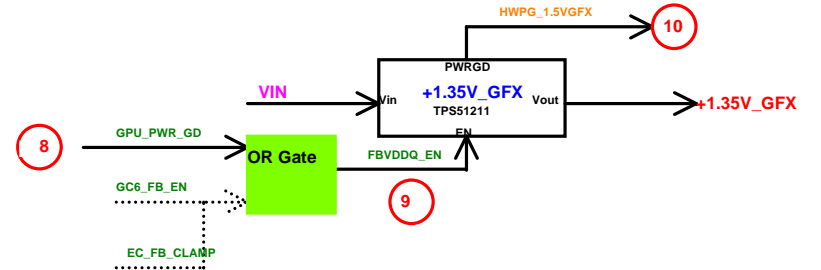
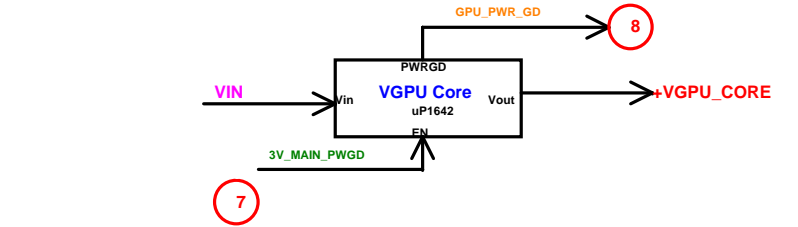
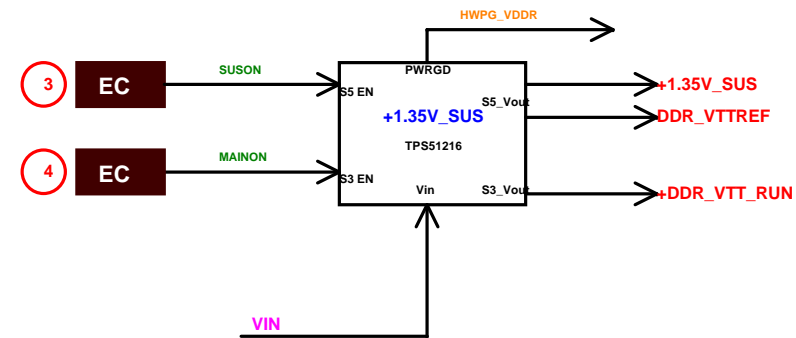
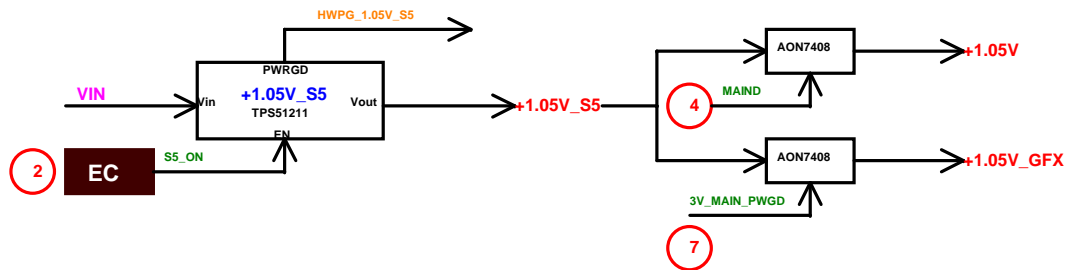
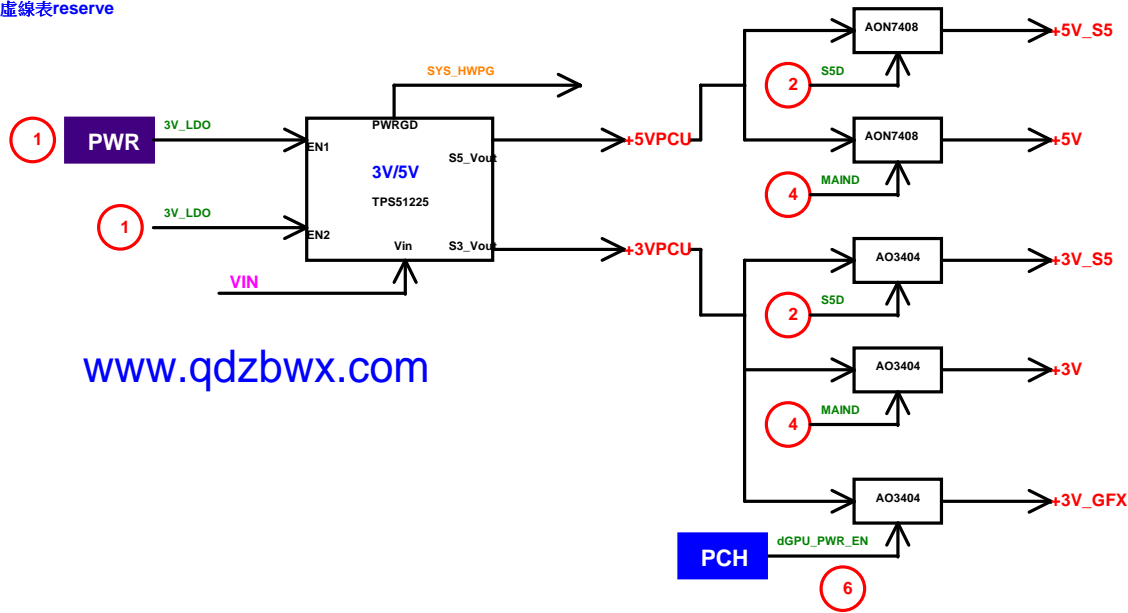
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實線表default
虛線表reserve

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Model	Version	CHANGE LIST
EA41	1B-1	<div>1 Stu# P#130 and P#134 (2014_05_30) -->Add Voore sensing Resistor</div> <div>2 Un stuff PC156 and PC158 (2014_05_30) -->Remove Voore PWM cap to balance 2 phase driving current</div> <div>3 Stu# R649 and R663 (2014_05_30) -->Change for EEPROM QAUD MODE</div> <div>4 Change R644 and R657 by CS21002B034 (2014_05_30) -->Change for EEPROM QAUD MODE</div> <div>5 Delete U3,U4,C319 and Add Q58,R729,R730,R731,D232(2014_06_09) -->Change for CRT CCD level shift</div> <div>6 Change Y3 from R6625000737 to R66250000H(2014_06_09) -->Change for Parts EOD issue</div> <div>7 Change R255 change 1.82K to 1.80K(2014_06_09) -->Change for Parts EOD issue</div> <div>8 Change C309,C310,C311,C312,C314,C315,C317,C320,C433,C438,C494,C496,C499,C508 from CH31003KB11 to CH31004KB17 -->Change for Parts EOD issue</div> <div>9 Unstuff CP1,CP2,CP3,CP4,CP5,CP6,C332,C333 (2014_06_10) -->Cost saving</div> <div>10 Add J2 (2014_06_10)</div> <div>11 Unstuff Q337 (2014_06_10) -->Cost saving</div> <div>12 stu# R308 (2014_06_10) -->solving Discrete issue</div> <div>13 Add R732,R733 (2014_06_10) -->Discrete issue</div> <div>14 Delete U14,C283 Add U33,C569,C570 Add Location VC1,VC2,C715,C576,C569(2014_06_10) -->Solving USB drop issue</div> <div>15 Change R508,R509,R5123,R256,R257,R192,R191,R455,R508,R59,R534,R524,R456,R531,R617,R625,R669,R200,R479,R213,R212,R458,R582,R583,R623,R218,R508,R591,R605,R163,R234 from Res 0 ohm 0402 to short pad -->Cost saving</div> <div>16 Change R#4,R#5, R#6 Add Location R74,R73,R736,R737,R738,R739 -->Cost Saving</div> <div>17 Delete R522,R530 -->Cost saving</div> <div>18 Change R577,R609,R641,R615 R145,R211, R610,R577,R611,R638,R215,R591,R602,R577,R607,R603,R613,R627,R508,R632,R638,R592,R484,R479,R616,R623,R569,R595,R619,R597,R220, R597,R553,R132,R564,R146,R141,R118,R132,R532,R276,R77,R486,R485,R458, R720,R491,R487,R546,R536,R538,R507,R593,R557,R533,R558,R108,R592,R511,R577 from Res 0 ohm 0402 to short pad(2014_06_11)</div> <div>19 Change R745,R555,R67,R108,R98, R99,R114,R87,R479,R127,R71,R81,R12,R143,R144,R525,R78,R95,R493,R312,R309,R335,R292,R286 from Res 0 ohm 0603 to short pad(2014_06_11)</div> <div>20 Change R488,R54,R59,R64,R53,R625 from Res 0 ohm 0805 to short pad(2014_06_11)</div> <div>21 Add PC166,PC167,PC168,PC169 for EMI solution</div> <div>22 Delete JP11,JP12,JP13,JP4,JP10,JP7,JP14,JP5,JP3,JP9,JP2,JP1,JP8(2014_06_11)</div> <div>23 Change P#192 from CS22742F800 RES CHIP 2.74K 1/16W +-1%(0402) to CS2242F822 RES CHIP 2.49K 1/16W +-1%(0402) (2014_06_11) -->Power require</div> <div>24 Change P#129 from CS41692F812 RES CHIP 160K 1/16W +-1%(0402)to CS41502F818 RES CHIP 150K 1/16W +-1%(0402) (2014_06_11) -->Power require</div> <div>25 Add PC164,PC165(2014_06_11)</div> <div>26 Change R171 from CS43902B010 to CS43902B00(2014_06_11)</div> <div>27 Change PC77 from CH43302KB14 to CH4472KB00 (2014_06_11)</div> <div>28 Change CN19 from DFHD04MB155 to DFHD04MB296 for SMT issue(2014_06_11)</div> <div>29 Change CN16 from DFPC06F058 to DFPC06F127 by ME request(2014_06_11)</div> <div>30 Change CN17 from DFPC20F043 to DFPC24F039 by ME request(2014_06_11)</div> <div>31 Stu# C503(2014_06_12)</div> <div>32 Unstuff R262 Stu# R259(2014_06_12)</div> <div>33 Stu# R240(2014_06_12)</div> <div>34 Stu# R271(2014_06_12)</div> <div>35 Unstuff R247(2014_06_12)</div> <div>36 Change U110 from AL09955K001 to AL099550000(2014_06_12)</div> <div>37 Unstuff R603,R604(2014_06_12)</div> <div>38 Delete R183 Add R323(2014_06_12)</div> <div>39 Delete R662(2014_06_12)</div> <div>40 Unstuff R#1,R#2,R#3,R#4,R#5,R#6, L13,L14,L15 Unstf R339,R344,R349,R347,R336,R320(2014_06_12)</div> <div>41 Hubs U3,delete change from B7C633140BC234D140P2 to B7C2361140BC274D140P2(2014_06_12)</div> <div>42 Unstuff R271 (2014_06_12)</div> <div>43 Unstuff L11 and stu# R291, R299(2014_06_12)</div> <div>44 Unstuff L31 and stu# R716, R713(2014_06_12)</div> <div>45 Change R26,R2805 from Res 0 ohm 0402 to short pad(2014_06_12)</div> <div>46 Change R416,R417, R6 from Res 0 ohm 0603 to short pad(2014_06_12)</div> <div>47 Change R17,R327 0 from Res 0 ohm 0805 to short pad(2014_06_12)</div> <div>48 Change U32 from AL00034003 to AL00034004(20140613) -->SD Card Issue</div> <div>49 Change C417,C418 from CH01804B007(CAP CHIP 50V+-5%,CNC,0402) to CH01806B008(CAP CHIP 10P 50V+-5%,CNC,0402)(2014_06_13) -->V3 EOD issue</div> <div>50 Change L4 from C8000181016 to CX3PE18100Q(20140613) -->EOD issue</div> <div>51 Change D22 from HCBAT54C204 to HCBAT54C232(20140613) -->EOD issue</div> <div>52 Change Q28,Q48,Q59 from BA001440207 to BA001440013(20140613) --> EOD issue</div> <div>53 Change Q13,Q14,Q22,Q23,Q25,Q27,Q29,Q32,Q33,Q34,Q38,Q46,Q54,Q55, from BANT70020001 to BANT70020002(20140613) --> EOD issue</div> <div>54 Change D4,D7 from BC88501V126 to BC88500V229(20140613) -->EOD issue</div>
		<div>1 Add thermal-crimp schematic Add Location U2,Q39,Q40,C7 to R740,R741,R742(20140701)</div> <div>2 Delete P#P1 for Assembly issue(20140701)</div> <div>3 Add R743 for cost down(20140701)</div> <div>4 Add TP17,TP178,TP179,TP180 for SMT issue(20140701)</div> <div>5 Add TP181 for SMT issue(20140701)</div> <div>6 Add C715,C716,C718,C719,C720,C721,C722,C723,C724,C725,C726,C727,C728,C729,C730,C731,C732,C733,C734,C735,C736,C737,C738,C739,C740,C741,C742,C743,C744,C745,C746,C747,C748,C749,C750,C751,C752,C753,C754 for EMI filter(20140701)</div> <div>7 Add P#81 CS44992F010 RES CHIP 49.9K 1/16W +-1%(0402) (20140704)</div> <div>8 Add P#36 CS41002B020 RES CHIP 100K 1/16W 5%(0402) (20140704)</div> <div>9 Add P#26 CS41002B020 RES CHIP 10K 1/16W 5%(0402) (20140704)</div> <div>10 Add P#191 CS00002B038 RESISTOR CHIP 0 1/16W +-5%(0402) (20140704)</div> <div>11 Add P#9 BANT70020002 TRANSISTOR MOS 2N7002Q(40V,300MA) SOT-23 (20140704)</div> <div>12 PC2,PC3,PC5,PC111 change from C63304MB002 to C63304MB03 for material prepare issue</div> <div>13 C12,PC82,PC83 change from CH6221M9A02 to CH6221M9A00 for material prepare issue</div> <div>14 Change R499,R202,R44,R412,R423,R279,R276,R656,R28,R31,R602,R606,R607,R665,R667,R666,R669,R670,R97,R195,R118,R693,R375,R350,R363,R364,R359,R356,R727,R354 from Res 0 ohm 0402 to short pad</div> <div>15 Change R116, R562,R799,R690,R717,R372,R373,R374 from Res 0 ohm 0603 to short pad</div> <div>16 Change R75,R101,R512,R142,R61,R477,R605 from Res 0 ohm 0805 to short pad</div> <div>17 Delete P#2 Add R744,R745</div> <div>18 Delete L21,L20 Change R379,R380,R381,R382 from RES 0 ohm 0402 to short pad(2014_07_09)</div> <div>19 Delete L11 Change R299,R301 from RES 0 ohm 0402 to short pad(2014_07_09)</div> <div>20 Delete L11 Change R299,R301 from RES 0 ohm 0402 to short pad(2014_07_09)</div> <div>21 Delete L13,L14,L15 Change R339,R344,R345,R347,R336,R328 from RES 0 ohm 0402 to short pad(2014_07_09)</div> <div>22 Delete L31 Change R718,R711 from RES 0 ohm 0402 to short pad(2014_07_09)</div> <div>23 Change R718,R726 from RES 220 0402 1% to RES CHIP 2K 1% R725,R723 from RES 220 0402 1% to RES CHIP 400 1% (2014_07_09)</div> <div>24 Add P#9 R402 1/16W 5%0402 PC58 CAP 220P(2014_07_09)</div> <div>25 Stu# R742 and stu# U30 (2014_07_09)</div> <div>26 Change Hole 9 footprint from H7082170118P2 to H788-1 (2014_07_11)</div> <div>27 Change CN1 footprint from subord-pads4-dglns4000 11p to subord 5-251801001000 6 11p-sm(2014_07_11)</div> <div>28 Change TP182 footprint from TP1825 to TP1800 (2014_07_11)</div> <div>29 Change Net: SERVE_A_R#002_8 connection from A0D000 to D0ND (2014_07_11)</div> <div>30 Add Net: HP_20W connection to D0ND (2014_07_11)</div> <div>31 Unstuff L30 and R754,L30 and R746 connect to +5V (2014_07_12)</div> <div>32 Add P#218 (2014_07_12)</div> <div>33 Add Location PC170 (2014_07_14)</div> <div>34 Change C53,C56 from CAP CHIP 10P 50V to CAP CHIP 8.2P 50V(2014_07_14)</div> <div>35 Unstuff Q21, R382, R335, Q15, C212 and change R134 from 0805 0 ohm to short pad(2014_07_14)</div> <div>36 Add P14 and P15 for reducing Vin noise(2014_07_14)</div> <div>37 Change P#124 from RES CHIP 0 ohm 0805 to short pad (2014_07_14)</div> <div>38 Change R481,R488,R712,R715,P#7,P#2,P#3,P#18, P#19,P#10,P#12,P#15,P#17,P#37,P#23,P#24,P#45,P#46,P#8,P#18,P#15,P#16,P#17,P#23,P#25,P#135,P#136,P#139,P#154,P#156,P#157,P#185,P#186,P#187,P#188,P#189,P#181,P#17,P#200,P#202,P#22 from Res 0 ohm 0402 to short pad(2014_07_14)</div>
		<div>1 Delete L21,L20 Change R379,R380,R381,R382 from RES 0 ohm 0402 to short pad(2014_07_09)</div> <div>19 Delete L11 Change R299,R301 from RES 0 ohm 0402 to short pad(2014_07_09)</div> <div>20 Delete L11 Change R299,R301 from RES 0 ohm 0402 to short pad(2014_07_09)</div> <div>21 Delete L13,L14,L15 Change R339,R344,R345,R347,R336,R328 from RES 0 ohm 0402 to short pad(2014_07_09)</div> <div>22 Delete L31 Change R718,R711 from RES 0 ohm 0402 to short pad(2014_07_09)</div> <div>23 Change R718,R726 from RES 220 0402 1% to RES CHIP 2K 1% R725,R723 from RES 220 0402 1% to RES CHIP 400 1% (2014_07_09)</div> <div>24 Add P#9 R402 1/16W 5%0402 PC58 CAP 220P(2014_07_09)</div> <div>25 Stu# R742 and stu# U30 (2014_07_09)</div> <div>26 Change Hole 9 footprint from H7082170118P2 to H788-1 (2014_07_11)</div> <div>27 Change CN1 footprint from subord-pads4-dglns4000 11p to subord 5-251801001000 6 11p-sm(2014_07_11)</div> <div>28 Change TP182 footprint from TP1825 to TP1800 (2014_07_11)</div> <div>29 Change Net: SERVE_A_R#002_8 connection from A0D000 to D0ND (2014_07_11)</div> <div>30 Add Net: HP_20W connection to D0ND (2014_07_11)</div> <div>31 Unstuff L30 and R754,L30 and R746 connect to +5V (2014_07_12)</div> <div>32 Add P#218 (2014_07_12)</div> <div>33 Add Location PC170 (2014_07_14)</div> <div>34 Change C53,C56 from CAP CHIP 10P 50V to CAP CHIP 8.2P 50V(2014_07_14)</div> <div>35 Unstuff Q21, R382, R335, Q15, C212 and change R134 from 0805 0 ohm to short pad(2014_07_14)</div> <div>36 Add P14 and P15 for reducing Vin noise(2014_07_14)</div> <div>37 Change P#124 from RES CHIP 0 ohm 0805 to short pad (2014_07_14)</div> <div>38 Change R481,R488,R712,R715,P#7,P#2,P#3,P#18, P#19,P#10,P#12,P#15,P#17,P#37,P#23,P#24,P#45,P#46,P#8,P#18,P#15,P#16,P#17,P#23,P#25,P#135,P#136,P#139,P#154,P#156,P#157,P#185,P#186,P#187,P#188,P#189,P#181,P#17,P#200,P#202,P#22 from Res 0 ohm 0402 to short pad(2014_07_14)</div>
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		<div>1 Delete L21,L20 Change R379,R380,R381,R382 from RES 0 ohm 0402 to short pad(2014_07_09)</div> <div>19 Delete L11 Change R299,R301 from RES 0 ohm 0402 to short pad(2014_07_09)</div> <div>20 Delete L11 Change R299,R301 from RES 0 ohm 0402 to short pad(2014_07_09)</div> <div>21 Delete L13,L14,L15 Change R339,R344,R345,R347,R336,R328 from RES 0 ohm 0402 to short pad(2014_07_09)</div> <div>22 Delete L31 Change R718,R711 from RES 0 ohm 0402 to short pad(2014_07_09)</div> <div>23 Change R718,R726 from RES 220 0402 1% to RES CHIP 2K 1% R725,R723 from RES 220 0402 1% to RES CHIP 400 1% (2014_07_09)</div> <div>24 Add P#9 R402 1/16W 5%0402 PC58 CAP 220P(2014_07_09)</div> <div>25 Stu# R742 and stu# U30 (2014_07_09)</div> <div>26 Change Hole 9 footprint from H7082170118P2 to H788-1 (2014_07_11)</div> <div>27 Change CN1 footprint from subord-pads4-dglns4000 11p to subord 5-251801001000 6 11p-sm(2014_07_11)</div> <div>28 Change TP182 footprint from TP1825 to TP1800 (2014_07_11)</div> <div>29 Change Net: SERVE_A_R#002_8 connection from A0D000 to D0ND (2014_07_11)</div> <div>30 Add Net: HP_20W connection to D0ND (2014_07_11)</div> <div>31 Unstuff L30 and R754,L30 and R746 connect to +5V (2014_07_12)</div> <div>32 Add P#218 (2014_07_12)</div> <div>33 Add Location PC170 (2014_07_14)</div> <div>34 Change C53,C56 from CAP CHIP 10P 50V to CAP CHIP 8.2P 50V(2014_07_14)</div> <div>35 Unstuff Q21, R382, R335, Q15, C212 and change R134 from 0805 0 ohm to short pad(2014_07_14)</div> <div>36 Add P14 and P15 for reducing Vin noise(2014_07_14)</div> <div>37 Change P#124 from RES CHIP 0 ohm 0805 to short pad (2014_07_14)</div> <div>38 Change R481,R488,R712,R715,P#7,P#2,P#3,P#18, P#19,P#10,P#12,P#15,P#17,P#37,P#23,P#24,P#45,P#46,P#8,P#18,P#15,P#16,P#17,P#23,P#25,P#135,P#136,P#139,P#154,P#156,P#157,P#185,P#186,P#187,P#188,P#189,P#181,P#17,P#200,P#202,P#22 from Res 0 ohm 0402 to short pad(2014_07_14)</div>
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Model	Version	CHANGE LIST		
EA41	1C-1	<div><div>39 Change 0801,0608,0712,0715,0807,0802,0810,0813,0821,0831,0837,0842,0844,0845,0846,0848,08115,08116,08117,08122,08131,08132,08135,08136,08139,08164,08166,08167,08185,08186,08187,08188,08189,08191,08192,08200,08206,0822 from Res 0 ohm 0802 to short pad(2014_07_14)</div><div>40 Change 0610,0810,0843,0850,0856,0863,0877,0878,08138,08131,08136 from Res 0 ohm 0803 to short pad(2014_07_14)</div><div>41 Change 0850A,08138 from 0803,2.2ohm to 0803/2.2ohm(2014_07_14)</div><div>42 Change 0850,08138 from 0803,1000pf to 0803/3300pf(2014_07_14)</div><div>43 Change PC73, PC74, PC144, PC15977cap from 4.7uf/25V/0805 to 10uf/25V/0805(2014_07_14)</div><div>44 Change R356,R369770ohm 64.5/15/0402 to 56/15/0402 (2014_07_14)</div><div>45 Delete PCB1</div><div>46 Change TVS Diode at D16 and D20(fromCYN402M0802 to C512501200)(2014_07_15)</div></div>		
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DOC NO.	PROJECT MODEL : Z8B	APPROVED BY:	DATE:	
	PART NUMBER:	DRAWING BY:	REVISION:	
				<div><div>Quanta Computer Inc.</div><div>PROJECT : Z8B</div><div>Change list-1</div></div>